

EDUCATION — PSYCHOLOGY BUILDING

Missouri Southern State College Joplin, Missouri 1977-1978 Catalog



1976 JUNE SMIWIFS	COLLEGE CALENDAR 1976 — 1978
1 2 3 4 5 6 7 8 9 1011 12	1570 — 1570
13141516171819 20212223242526 27282930	
JULY	SUMMER SESSION 1976
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 22 82 9 30 31 AUGUST 1 2 3 4 5 6 7 8 9 10 11 12 31 4 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 SEPTEMBER	June 3 Evening Registration June 4
1 2 3 4 5 6 7 8 9 1011 12131415161718 19202122232425 2627282930	
OCTOBER	FIRST SEMESTER 1976-1977
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24, 25 26 27 28 29 30	August 25 Faculty Study Conference August 26-27 Day Registration
NOVEMBER	August 26 Evening Registration August 30 Classes Begin
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 DECEMBER	September 3 Last Day for Class Changes September 6 Dismissal for Labor Day October 22 Mid-Semester (D&F Grades are Due Friday, October 22 by 5:00 P.M.)
1 2 3 4 5 6 7 8 9 1011	October 29 Withdrawal After this Date No Refund of Fees
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November 11 Dismissal for Veteran's Day November 12-13 Forensic Tournament (No Classes 1:00-5:00 P.M.)
1977 JANUARY	November 24 Last Day to Drop Courses with "W" November 24 Dismissal for Thanksgiving (After Last Class, Day & Evening)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 230 241 25 26 27 28 29	November 29
FEBRUARY	
1 2 3 4 5 6 7 8 9 101112 13141516171819 20212223242526 2728	SECOND SEMESTER 1976-1977
MARCH	
1 2 3 4 5 6 7 8 9 101112 13141516171819 20212223242526 2728293031	January 17
APRIL	January 26 Last Day for Class Changes February 21 Washington's Birthday Holiday
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	February 21 Washington's Birthday Holiday March 18 Mid-Semester (D&F Grades are Due Friday, March 18 by 5:00 P.M.) March 25 Withdrawal After this Date No Refund of Fees
MAY	April 4-8 Spring Break

1 2 3 4 5 6 7 8 9 1011121314 15161718192021 22232425262728 293031

JUNE SMTWTFS	SUMMER SESSION 1977
1 2 3 4 5 6 7 8 9 1011 12131415161718 1920212232425 2627282930 JULY 1 2 3 4 5 6 7 8 9 10111213141516 17181920212223 2125267728930	June 2
AUGUST	July 29 Summer Session Ends
1 2 3 4 5 6 7 8 9 10111213 14151617181920 21 22 23 24 25 26 27 28 29 30 31	
SEPTEMBER	FIRST SEMESTER 1977-1978
1 2 3 4 5 6 7 8 9 10 11121314151617 18192021222324 252627282930 OCTOBER 1 2 3 4 5 6 7 8 9 101112131415 16171819202122	August 24 . Faculty Study Conference August 25-26 . Day Registration August 25 . Evening Registration August 29 . Classes Begin September 2 . Last Day for Class Changes September 5 . Dismissal for Labor Day
²³ ₃₀ ²⁴ ₃₁ 25 26 27 28 29 NOVEMBER	October 21 Mid-Semester (D&F Grades are Due Friday, October 21 by 5:00 P.M.)
1 2 3 4 5 6 7 8 9 1011112 13141516171819 2021 22 23 24 25 26 27 28 29 30	October 28 Withdrawal After this Date No Refund of Fees November 11 Dismissal for Veteran's Day November 11-12 Forensic Tournament (No Classes 1:00-5:00 P.M.)
DECEMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November 23 Last Day to Drop Courses with "W" November 23 Dismissal for Thanksgiving (After Last Class, Day & Evening) November 28
1978	December 21 End of First Semester
1 2 3 4 5 6 7 8 9 1011121314	
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	SECOND SEMESTER 1977-1978
FEBRUARY	
1 2 3 4 5 6 7 8 9 1011 12131415161718 19202122232425 262728	January 16 . Faculty Conference January 17-18 . Day Registration January 17 . Evening Registration January 19 . Classes Begin
MARCH 1 2 3 4 5 6 7 8 9 1011 12131415161718 19202122232425 262728293031	February 20 Last Day for Class Changes February 20 Washington's Birthday Holiday March 17 Mid-Semester (D&F Grades are Due
APRIL 1 2 3 4 5 6 7 8 9 10 11121314151617 18192021222324 252627282930	March 31 Withdrawal After this Date No Refund of Fees March 20-24 Spring Break April 19 Last Day to Drop Courses with "W" May 17
MAY	(7:00 P.M.) End of Semester
1 2 3 4 5 6 7 8 9 10111213 14151617181920 21222324252627 28293031	

Missouri Southern State College

JOPLIN, MISSOURI



OFFERING BACCALAUREATE
AND ASSOCIATE DEGREES

CATALOG OF
General Information and
Announcement of Courses
1976 — 1978

FOREWORD

This catalog presents general information, requirements for admission and graduation, and course offerings for the academic years of 1976-78, beginning June 1, 1976. The register of administrative officers and instructors is for the 1975-76 year. The College reserves the right to amend regulations and change fees when necessary.

EQUALITY OF OPPORTUNITY

Missouri Southern State College is firmly committed to a policy of nondiscrimination on the basis of race, color, creed, ethnic origin, or sex in any of its operations and facilities. The College strives to build a community in which opportunity is equalized and to use its facilities and resources to develop the skills of the members of all groups so they may play responsible and productive roles in society. This policy is relevant to all of the College's services and facilities which are available to every student enrolled.

The College adheres to the requirements of the Civil Rights Act of 1964, Equal Employment Opportunity Act of 1972, The Education Act of 1972, Title IX, and the Governor's Executive Order of 1973. In October 1973 the Board of Trustees established an Affirmative Action Committee and in the Fall semester of 1975 a Title IX Officer was designated to assure the enforcement of equal opportunity policies and affirmative action and to avoid or eliminate discriminatory practices.

DIRECTORY INFORMATION

The following paragraph is taken from a letter written by the Executive Department, United States Government, April 15, 1975 to institutions of higher education:

"1. <u>EDUCATION RECORDS</u>: Public Law 93-568 amends Public Law 93-380 (General Education Provisions Act) and permits schools to maintain directory information concerning students. Only after the school has given public notice that directory information will be released on students are schools permitted to do so. This information would consist of such data as the student's name, address, date and place of birth, major field of study, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended. Directory information may be released by the school without an educational release statement, unless . . . the student has informed the school that such information may not be released . . . without his . . . prior consent . . . "

Missouri Southern State College will include the following as "Directory" information:

Student's Name
Address
Telephone Number
Date & Place of Birth
Next of Kin or Spouse (Emergency Only)
Major Field of Study
Dates of Attendance
Degrees and Awards Received
Most Recent Previous Educational Agency or Institution Attended

CORRESPONDENCE DIRECTORY

MISSOURI SOUTHERN STATE COLLEGE **JOPLIN, MISSOURI 64801**

Telephone: Area 417 624-8100

Admission of students	Director of Admissions
Alumni affairs	Director of Alumni Affairs
Athletic activities	Director of Athletics
Business affairs and purchases	Director of Financial Affairs
Catalog and bulletins	Director of Admissions
Credit evaluation and transcripts	Registrar
Employment, on campus	
(Student part-time)	Office of Financial Aids
Evening session	Coordinator of Evening Session
Faculty appointments Vice	President for Academic Affairs
Financial aids	Office of Financial Aids
Gifts and annuities	President
Housing	Director of Housing
Loans	Office of Financial Aids
Orientation	Dean of Men. Dean of Women
Placement services	Director of Placement Services
Public information	Director of Public Information
Student organizations	Dean of Men. Dean of Women
Summer session	Coordinator of Summer Session
Testing and counseling Dire	ector of Counseling and Testing
Veterans affairs	Office of Financial Aids

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MISSOURI SOUTHERN STATE COLLEGE

1976 - 1978

BOARD OF REGENTS

Fred Hughes, President - 1975 Jerry Wells, Vice President - 1978 *Elvin Ummel, Secretary Mills H. Anderson - 1976 Norval M. Matthews - 1977 Carolyn D. Rodgers - 1979

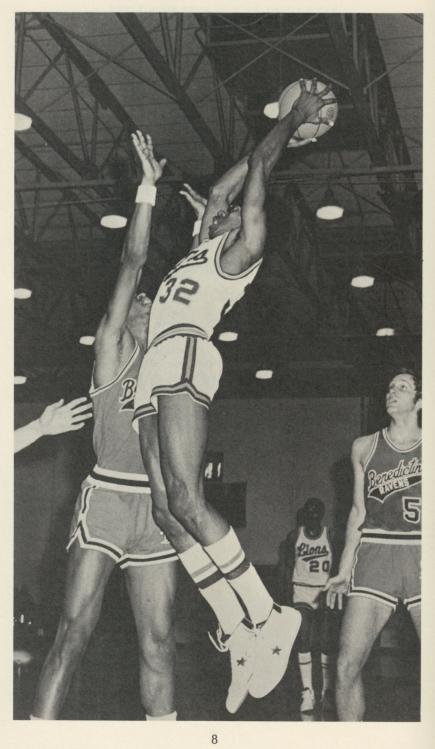
BOARD OF TRUSTEES

Fred Hughes, President - 1976 Elvin Ummel, Vice President - 1978 *Norval M. Matthews, Secretary Jerry E. Wells - 1980 Arthur Kungle, Sr. - 1978 Donald R. Patterson - 1980

^{*}Appointed by Board of Regents

ADMINISTRATIVE STAFF

Leon C. Billingsly
Harold Cooper
George H. Volmert
Ronald W. Robson Director of Public Information David C. Bingman Director of Continuing Education and Coordinator of Evening and Summer Sessions
Glenn D. Dolence Dean of Student Personnel Services Myrna L. McDaniel Dean of Women Eugene C. Mouser Director of Counseling and Testing Larry K. Karst Guidance Counselor Ronald E. Rhea Director of Housing and Bookstore Kreta Cable Admissions, Aids and Awards Counselor Bobby L. Martin Veterans Coordinator
Lloyd L. Dryer College Psychologist Irma J. Hartley
Elmer E. Rodgers
Harry Castor
Jack ParsleyFood Service ManagerHoward DuganSuperintendent of Buildings and GroundsB. J. BarnesMechanical EngineerRonald E. RheaBookstore ManagerJim FitzmauriceMail and Duplicating Services SupervisorAdrian MeachamSecurity Supervisor



(The date indicates the first year of service at this college.)

Leon C. Billingsly (Professor) B.S., Southwest Missouri State College M.S., Kansas State College of Pittsburg Ed.D., University of Arkansas	President of the College	1962
Floyd E. Belk (Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ed.D., Oklahoma State University	Vice President for Academic Affairs	1966
Paul R. Shipman (Professor) B.S.E., Southwest Missouri State Colleg M.S., Kansas State College of Pittsburg Ed.D., University of Arkansas		1965
Roger E. Adams (Assistant Professor) B.S.I.T., Kansas State College of Pittsbur M.S., Kansas State College of Pittsburg Ed.S., Kansas State College of Pittsburg	Automotive Technology	1967
Geraldine H. Albins (Instructor) B.S.E., Kansas State College of Pittsburg M.A., Texas Woman's University	Physical Education	1975
Lawrence R. Albright, II (Associate Profes B.S., Northwest Missouri State College M.S., University of Nebraska Ph.D., University of Nebraska	sor) Chemistry	1969
Charles S. Allen (Associate Professor) B.S., Drury College M.S., Illinois Institute of Technology Ph.D., University of Georgia	Mathematics	1970
Vernon D. Baiamonte (Professor) A.B., Colorado State College M.A., Colorado State College Ph.D., Indiana University	Chemistry Head, Physical Science Dept.	1967
Michael E. Banks (Associate Professor) B.S., Oklahoma State University M.S., New Mexico Highlands University Ph.D., University of Kansas	Education	1975

David C. Bingman (Associate Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ed.D., University of Arkansas	Director of Continuing Education	1963
E. Enid Blevins (Assistant Professor) B.S., Southwest Missouri State College M.S., Kansas State College of Pittsburg	English	1966
Harold W. Bodon (Assistant Professor) A.B., University of Utah M.S., California State College Hayward Ph.D. Candidate, Brigham Young Unive	Foreign Languages	1971
Rochelle L. Boehning (Associate Professor B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Graduate Study, Illinois Institute of Tech		1967
G. Joyce Bowman (Assistant Professor) B.S., Southwest Missouri State College M.A., University of Arkansas	Theatre	1967
CPT Franklin G. Bridges (Assistant Professor B.S.E., Southwest Missouri State Univers M.S.E., Southwest Missouri State Univer	ity	1975
Milton W. Brietzke (Associate Professor) A.B., San Jose State College M.A., Western Reserve University Doctoral Study, University of Denver	Director of Theatre	1956
Lt. Col. Richard A. Brown (Professor) B.S.E., Kansas State College of Pittsburg	Military Science	1975
Helen R. Bunch (Instructor) A.B., Indiana Central College M.L.S., Indiana University	Circulation Librarian	1975
Kreta C. Cable (Instructor) B.S., Missouri Southern State College	Admissions Counselor	1974
Anthony J. Calwhite (Assistant Professor) B.S., Southwest Missouri State College M.E., University of Missouri	Physical Education	1969
MSC lames L Campbell (Instructor)	Military Science	1975

Carmen M. Carney (Assistant Professor) B.S., Catholic University of Puerto Rico M.A., University of Iowa Ph.D., University of Iowa	Foreign Languages	1974
JoAnna M. Challman (Instructor) A.B., University of Kansas M.A., University of Kansas	Sociology	1972
Jerry P. Coburn (Instructor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ed.S., Kansas State College of Pittsburg	Drafting and Design	1973
Nathanial S. Cole (Associate Professor) B.F.A., Kansas City Art Institute M.F.A., Kansas City Art Institute	Art	1970
Francisco R. Colon (Assistant Professor) B.S., Southwest Missouri State College M.A., University of Illinois	Foreign Languages	1968
Allan L. Combs (Instructor) B.S., Ohio State University M.S., University of Georgia Ph.D. Candidate, University of Georgia	Psychology	1975
Edith M. Compton (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Business Administration	1967
Harold Cooper (Professor) A.B., Berea College M.A., University of Nebraska Ph.D., University of Nebraska	History ean, Division of Arts and Sciences	1968
Mary L. Cornwell (Instructor) A.B., University of Tulsa M.A., University of Arkansas	Speech	1975
Jimmy C. Couch (Assistant Professor) A.B., Texas Technological College M.A., Texas Technological College Ph.D., University of South Carolina	English	1970
John M. Cragin (Assistant Professor) B.S., United States Military Academy, West B.S., Missouri Southern State College M.S., Purdue University	Physics and Data Processing Point	1967
Elliott A. Denniston (Assistant Professor) A.B., Princeton University M.A., University of Michigan Ph.D., University of Michigan	English	1974

Lucille E. Dinges (Assistant Professor) A.B., Fort Hays Kansas State College M.A., Louisiana State University Ph.D. Candidate, Louisiana State University	English	1969
Darral A. Dishman (Assistant Professor) B.F.A., Kansas City Art Institute M.S., Kansas State College of Pittsburg	Director of Art Department	1966
Glenn D. Dolence (Associate Professor) B.S., Missouri Valley College M.S., Kansas State College of Pittsburg Ed.D., University of Arkansas	Dean of Student Services	1969
Mary L. Dove (Assistant Professor) B.S., University of Missouri M.A., University of Missouri M.S., University of Missouri	Periodical Librarian	1969
Lloyd L. Dryer (Professor) B.S., Oklahoma State University M.A., Oklahoma State University Ed.D., Oklahoma State University	Psychology College Psychologist	1950
Kenneth F. Dwyer (Instructor)	Machine Technology	1974
Leland D. Easterday (Associate Professor) B.S., Northeast Missouri State College M.A., Southern Illinois University Ed.D., University of Arkansas	Education	1967
Doris T. Elgin (Assistant Professor) B.S. in Nursing, University of Tennessee M.A., Memphis State University	Nursing	1968
Gerald E. Elick (Associate Professor) A.B., University of Missouri M.S., University of Arkansas Ph. D., University of Arkansas	Biology and Geology	1969
Mary A. Elick (Instructor) B.S.E., Southwest Missouri State University M.S., University of Arkansas	Mathematics	1974
William C. Elliott (Assistant Professor) B.M.E., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Music	1968
Ronald R. Ellis (Instructor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Physical Education	1974

Josephine M. Estes (Instructor) B.S., Missouri Southern State College	Business Administration	1975
William L. Ferron (Assistant Professor) B.S., Creighton University M.A., Southern Methodist University Ph.D., Kansas State University	Biology Head, Biology Dept.	1971
Carl A. Finke (Associate Professor) B.S.B.A., University of Arkansas J.D., University of Oklahoma CPA	Business Administration	1970
Jon H. Fowler (Assistant Professor) B.S., Southwest Missouri State College M.F.A., University of Arkansas	Art	1968
James L. Frazier (Assistant Professor) A.B., University of Wichita M.A., Wichita State University	Physical Education Head Football Coach	1971
Donnie D. Gaddis (Instructor) B.S.E., Southwest Missouri State University M.A., Northeast Missouri State University	Physical Education	1974
Helen R. Gardner (Associate Professor) A.B., Bradley University M.A., Bradley University Ed.D., Indiana University	English	1968
E. Sam Gibson (Associate Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ph.D., Kansas State University	Biology	1967
James E. Gilbert (Instructor) A.B., University of Missouri M.A., Southwest Missouri State University	Assistant in Financial Aids	1974
B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	General Business	1968
Judy Grant (Assistant Professor) A.B., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ed.S., Kansas State College of Pittsburg	Sociology	1969
James M. Gray (Assistant Professor) B.B.A., Dana College M.B.A., University of Arkansas	Business Administration Director of Computer Center	1969
George C. Greenlee (Instructor) A.B., Northeast Louisiana State College M.A., Northeast Louisiana State College	English	1970

Mary A. Gremling (Instructor) B.S., University of Missouri at Kansas City	Director of Dental Programs	1974
Kathleen G. Grim (Instructor) B.S.E., Northeast Missouri State University M.A., Northeast Missouri State University	Business Administration	1975
Conrad E. Gubera (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ph.D. Candidate, Oklahoma State University	Sociology	1967
Clark I. Guilliams (Professor) A.B., University of Missouri M.Ed., University of Missouri Ed.D., University of Arkansas	Education and Psychology	1967
Nhuyen Quy Hao (Instructor) B.S., University of Saigon, Vietnam M.S., College of Public Works, Saigon, Vietna	Physical Science	1975
Henry L. Harder (Associate Professor) A.B., Subiaco College M.A., University of Arkansas Ph.D., University of Maryland	English	1970
Wayne A. Harrell (Assistant Professor) B.M.E., Wichita State University M.M.E., Wichita State University Ed.D., University of Northern Colorado	Music Head, Dept. of Fine Arts	1971
Robert A. Harris (Assistant Professor) B.M., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Pupil of Rosina Lhevinne	Music	1971
George T. Hartley (Instructor) B.S., Missouri Southern State College M.A., Central Missouri State College	Business Administration	1975
Cleetis Headlee (Professor) B.S., University of Missouri M.A., University of Missouri	English	1946
Garry J. Hess (Instructor) B.S., Fort Hays Kansas State College M.A., Kansas State College of Pittsburg	Art	1971
Robert O. Highland (Professor) B.M.E., University of Oklahoma M.M.E., University of Oklahoma Ed.D., University of Arkansas	Director of Student Teaching Education	1968

T. L. HOLMAN (Associate Professor) A.B., Southwestern College, Winfield, Kansas M.A., Kansas State College of Pittsburg Ed.D., Oklahoma State University	History	1962
Julie S. Hughes (Assistant Professor) B.S., Kansas State College of Pittsburg M.A., Kansas State College of Pittsburg	History	1963
Richard D. Humphrey (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Director of Admissions Aids and Awards	1968
Duane L. Hunt (Assistant Professor) A.B., Southwest Missouri State College M.A., University of Arkansas	Theatre	1964
Marilyn J. Jacobs (Instructor) B.S. in Nursing, University of Nebraska	Nursing	1967
Paul E. Jensen (Professor) B.S., Oklahoma City University M.S., Kansas State College of Pittsburg Ed.S., Kansas State College of Pittsburg	Mathematics	1960
Bernard A. Johnson (Instructor) B.S., Missouri Southern State College M.A., Central Missouri State College	Business Administration	1974
Delbert I. Johnson (Assistant Professor) B.M.E., University of Wichita M.M.E., University of Wichita	Music	1967
Paul W. Johnson (Instructor) B.S., United States Naval Academy B.G.S., University of Nebraska M.A., University of Oklahoma	Economics	1972
Jack D. Jolly (Assistant Professor) B.S.E., University of Oklahoma M.A., University of Oklahoma Graduate Study, University of Texas, University	Mathematics	1968
Jesse P. Jones (Assistant Professor) A.B., University of Southern Mississippi M.A., University of Southern Mississippi Ph.D., University of Tennessee	Political Science	1975
J. Merrell Junkins (Associate Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg Ed.D., Oklahoma State University	Psychology Head, Dept. of Psychology	1964
Larry K. Karst (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State Teachers College of Emporia	Guidance Counselor	1968

Nancy J. Karst (Instructor)	Dental Assisting	1975
Harrison M. Kash (Assistant Professor) A.B., Kansas State College of Pittsburg M.S., Kansas State University	Chemistry	1958
Retha L. Ketchum (Instructor) B.S. in Nursing, Creighton University	Nursing	1970
Dale R. Kirkham (Assistant Professor) B.S., Fort Hays Kansas State College M.S., University of Wyoming Ph.D., University of Missouri, Columbia	Biology	1972
Joseph P. Lambert (Associate Professor) A.B., Mississippi College M.A., Mississippi College Ph.D., Auburn University	English	1970
Douglas B. Landrith (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Physical Education Golf Coach	1959
L. Keith Larimore (Professor) B.S.B.A., Kansas State College of Pittsburg M.B.A., University of Oklahoma Ph.D., University of Arkansas	Business Administration Dean, Division of Business Administration	1966
Charles E. Leitle (Associate Professor) B.S.B.A., University of Arkansas M.B.A., University of Arkansas Ph.D., University of Arkansas	Business Administration	1970
Julio S. Leon (Associate Professor) A.B., Universidad Tecnica (Santiago, Chile) M.B.A., North Texas State University Ph.D., University of Arkansas	Business and Economics	1969
William R. Livingston (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., University of Illinois	Mathematics	1968
Robert P. Markman (Associate Professor) B.S., Monmouth College M.A., University of Oklahoma Ph.D., University of Oklahoma	History	1967
Bobby L. Martin (Instructor) A.B., Missouri Southern State College	Veterans Coordinator	1973
J. Larry Martin (Associate Professor) B.S., University of Tulsa M.S., University of Tulsa Ed.D., University of Georgia	Mathematics Head, Mathematics Dept.	1965
B. W. Mason (Associate Professor) Dir A.B., Colorado State College of Education, Gree M.A., Colorado State College of Education, Gree Graduate Study, Teachers College, Columbia U	eley	1967

Richard W. Massa (Associate Professor) B.S., University of Missouri, Columbia M.A., University of Missouri, Columbia Graduate study, University of Arkansas	Journalism	1972
James K. Maupin (Associate Professor) B.S., Central Missouri State College M.S., Kansas State College of Pittsburg Graduate study, University of Minnesota, University of Oklahoma, University of Oreg		1955
Myrna L. McDaniel (Instructor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Dean of Women	1973
Robert J. Miller (Assistant Professor) B.S., Central Missouri State College M.A., Central Missouri State College	Business Administration	1968
B.S., Kansas State College of Pittsburg, M.S., Kansas State College of Pittsburg	Business Education	1966
Grace C. Mitchell (Assistant Professor) A.B., Greensboro College M.A., Pennsylvania State University	English	1958
Arlene E. Moore (Assistant Professor) A.B., Southwest Missouri State College M.A., Southwest Missouri State College M.L.S., University of Oklahoma	Reference Librarian	1971
Henry G. Morgan (Associate Professor) A.B., University of Southern Mississippi M.A., University of Southern Mississippi Ph.D., University of Colorado	English	1971
Melvyn W. Mosher (Assistant Professor) A.B., University of Washington M.S., University of Idaho Ph.D., University of Idaho	Physical Science	1974
Eugene C. Mouser (Assistant Professor) B.M.E., Oklahoma State University M.S., Oklahoma State University Ed.D., Oklahoma State University	Director of Counseling and Testing	1970
Elizabeth J. Mueller (Instructor) A.B., Missouri Valley College	Processing Librarian	1966
Charles F. Niess (Professor) B.S., Central Missouri State College M.S., Central Missouri State College Ed.D., Colorado State College	Education Dean, Division of Education and Psychology	1966
Patricia F. Noirfalise (Instructor)	Dental Assisting	1975

Max D. Oldham (Assistant Professor) B.S., Southwest Missouri State University M.S., Kansas State College of Pittsburg Ed.D. Candidate, Oklahoma State University	Physical Education Director of Athletics Head, Physical Education Dept.	1973
Orty E. Orr (Professor) B.S., Kansas State College of Pittsburg M.S., Oklahoma State University Ph.D., Oklahoma State University	Biology	1966
Pamela R. Overman (Instructor) B.S., University of Missouri at Kansas City	Dental Hygiene	1975
Russell A. Phillips (Associate Professor) B.S., Iowa State University Ph.D., Iowa State University	Physics	1970
Harry E. Preble (Professor) A.B., University of Illinois M.A., University of Illinois Ph.D., University of Illinois	English	1968
Vonnie R. Prentice (Assistant Professor) B.S.E., Northeastern Oklahoma State College M.S., University of Arkansas Ph.D., University of Arkansas	Biology	1974
Robert G. Price (Assistant Professor) B.S., University of Kansas M.S., Kansas State College of Pittsburg Ph.D., Kansas State University	Business Administration	1973
Gail K. Renner (Assistant Professor) B.S., Southwest Missouri State College M.A., University of Missouri, Columbia M.A., University of Missouri, Kansas City Ph.D., University of Missouri	History	1965
Ronald E. Rhea (Instructor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Dir., Housing and Mgr., Bookstore	1972
Dennis H. Rhodes (Professor) A.B., University of Texas M.E., University of Houston Ph.D., Southern Illinois University	Speech	1970
Hilda E. Richardson (Instructor) B.S., Kansas State College of Pittsburg M.S., Kansas State Teachers College of Emporia	Education	1972
Elmer E. Rodgers (Associate Professor) A.B., Youngstown University M.S.L.S., Western Reserve University	Head Librarian	1968
Sallie L. Roper (Instructor) B.S., Missouri Southern State College M.S., Kansas State College of Pittsburg	Physical Education	1972

James V. Sandrin (Associate Professor) B.S., Southern Illinois University M.S., Southern Illinois University Ph.D., Southern Illinois University	1969
Delbert F. Schafer (Associate Professor) A.B., Southwestern State College M.A., University of Oklahoma Ph.D., University of Oklahoma	1968
O. L. Schuster (Professor) Associate Director of Teacher Education B.S., Southwest Missouri State College M.Ed., University of Missouri Ed.D., University of Mississippi	1967
Donald L. Seneker (Instructor) B.S., Central Missouri State College Director, Police Academy Law Enforcement	1971
R. Clyde Shipley (Assistant Professor) B.S., Missouri Valley College M.S., Central Missouri State College Physical Education Head Basketball Coach	1969
Bobbie Z. Short (Assistant Professor) B.S., Southwest Missouri State College M.S., Kansas State College of Pittsburg	1965
F. Joe Sims (Associate Professor) B.M., Southwestern College, Winfield, Kansas M.A., University of Northern Colorado Ed.D., University of Oklahoma	1971
Ann M. Slanina (Assistant Professor) A.B., St. Francis College, Fort Wayne, Indiana M.A., University of Dayton Ph.D. Candidate, University of New Mexico	1971
Marion E. Sloan (Assistant Professor) A.B., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	1967
Robert E. Smith (Assistant Professor) B.S., Northwest Missouri State College, Maryville, Mo. B.S., University of Wisconsin M.A., Oklahoma State University Ph.D., Oklahoma State University	1972
Business Administration B.S., Missouri Southern State College M.S., Kansas State College of Pittsburg Ph.D. Candidate, University of Missouri	1974
Ross C. Snyder (Associate Professor) B.S., Taylor University M.A., Ball State University Director of Educational Media	1968
Jack G. Spurlin (Instructor) R. S. Northoast Missouri State University Law Enforcement	1975

Sam J. Starkey (Associate Professor) B.S., University of Arkansas M.B., University of Arkansas Ed.D., University of Arkansas	Education and Psychology	1966
Annetta E. St. Clair (Assistant Professor) A.B., Kansas State College of Pittsburg M.A., Kansas State College of Pittsburg	Political Science	1964
Wayne E. Stebbins (Assistant Professor) B.S., Kansas State Teachers College of Emporia M.S., Kansas State Teachers College of Emporia	Biology	1969
Bob F. Steere (Professor) B.S., Southwestern State College M.S., Arizona State College Ed.D., Utah State University	Education	1969
Dudley F. Stegge (Assistant Professor) B.S., Kansas State College of Pittsburg M.S., Kansas State College of Pittsburg	Physical Education Director of College Union	1952
Arthur L. Strobel (Assistant Professor) B.S., Southeast Missouri State College M.S., University of Arkansas	Physics	1963
Pudukkottai K. Subramanian (Associate Professor B.S., University of Delhi, India M.A., Miami University of Ohio Ph.D., University of Wisconsin) Mathematics	1970
Don D. Tate (Instructor) B.S.E., University of Arkansas M.A., University of Houston	Sociology	1974
Robert R. Terry (Instructor) B.S., Northeast Missouri State University	Law Enforcement	1974
Charles C. Thelen (Assistant Professor) A.B., Occidental College M.A., University of Northern Colorado Ed.D., University of Northern Colorado	Music	1973
John W. Tiede (Assistant Professor) B.S., Southwest Missouri State University M.B.A., University of Arkansas	Business Administration	1968
David L. Tillman (Instructor) B.S., Brigham Young University M.S., Brigham Young University	Biology	1975

Jacqueline C. Vlasak (Instructor) B.S. in Nursing, California State University M.A., Holy Names College	Nursing	1975
George H. Volmert (Assistant Professor) B.S., Northeast Missouri State College M.A., Northeast Missouri State College	Education Registrar	1966
James T. Volskay (Assistant Professor) B.S.E., Southwest Missouri State College M.E., University of Missouri Ph.D., University of Missouri	Psychology	1969
Philip R. Whittle (Associate Professor) B.S., University of Kentucky Ph.D., Iowa State University	Chemistry	1970
Robert C. Wiley (Associate Professor) B.S., Trinity University M.Ed., Trinity University Ed.D., Oklahoma State University	Education	1969
W. Ralph Winton (Assistant Professor) B.S., Drury College M.E., University of Arkansas	Director of Placement and Alumni Affairs	1968
Pauline W. Wolfe (Associate Professor) A.B., University of Wyoming M.A., Northwestern University Graduate Study at University of New Mexico	English	1967
Edward W. Wuch (Assistant Professor) B.S., University of Missouri M.E., University of Missouri	Physical Education Head, Baseball Coach	1969
Venus Yount (Assistant Professor) B.S., Kansas State College of Pittsburg M.A., University of Arkansas	Physical Education	1959
Donald R. Youst (Assistant Professor) A.B., Kansas State Teachers College M.S., Kansas State Teachers College, Emporia Ph.D., University of Nebraska	Political Science	1971
EMERITUS FACULT	Y	
Harry C. Gockel (Professor) A.B., Washington University M.A., Washington University M.S., University of Wisconsin	History and Geography	
Martha Ann McCormick (Professor) M.A., University of Chicago Ph.B., University of Chicago	Mathematics	

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Business Administration

Dorothy A. Stone (Professor)B.S., University of Missouri
M.A., University of Missouri

PART-TIME FACULTY

Business Administration lames Brown B.S., Missouri Southern State College

Aviation John P. Brown

Certified flight & ground instructor and pilot examiner

Ellen Coleman Nursing B.S., University of Missouri

English Gwen E. Hunt

B.S., Southwest Missouri State College M.A., University of Arkansas

Data Processing Paul A. Karr

B.S., Missouri Southern State College

Business Administration William N. McDonald, Jr. B.S., University of Missouri

Speech Correction H. Waldo Wasson B.S.E., Northeast Missouri State College

M.A., University of Missouri Ph.D., Louisiana State University & A. & M. College

AFFILIATED FACULTY

Radiologic Technology Wiley Beals Graduate Burge Protestant Hospital School of Radiologic Technology Registered Radiologic Technologist

American Registry of Radiologic Technologists

Director-School of Radiologic Technology C.C. Young, M.D.

THE COMMUNITY AND SERVICE AREA

Missouri Southern State College is situated in Southwest Missouri, eleven miles from the Kansas state line, 40 miles from the Arkansas border, and 15 miles from Oklahoma. In this southwest part of Missouri lies a nine-county area comprising approximately

200,000 people.

The campus, located at the northeast edge of Joplin on 310 acres of gently rolling land, is within commuting distance of a large college population. The college lies at the heart of a cluster of cities with populations up to 45,000. Some of these cities are Joplin (the largest), Carthage, Webb City, Carl Junction and Sarcoxie. The college is located in the hub of a four-state area with its network of east-west and north-south major highways and good air transportation schedules. Known in the early 1900's as an area of diversified agricultural activities and lead and zinc mining, it is even better known today as a rapidly growing industrial and service center. It is within easy driving distance of the Ozarks, one of the great recreational areas of the United States. Cultural activities, educational programs from kindergarten to college, and beautiful churches for all faiths are ideal for a college setting.

HISTORY

Missouri Southern State College originated in 1937 as Joplin Junior College. It was a part of the Joplin Public School System, but the first year of classes was conducted by the Extension

Division of the University of Missouri.

The first year, classes were held in the Joplin Senior High School building. The college moved into its own building at Fourth Street and Byers Avenue on September 6, 1938. After 20 years in this location the college was transferred to 310 West Eighth Street where it continued to operate until June, 1967. The educational and administrative functions of Missouri Southern State College were moved to the new campus in June 1967. Here the college is operating on a new, multiple building campus with an enlarged program and student body.

A series of new organizational and legal developments began

in April, 1964.

On April 1, 1964, the voters created the Junior College District of Jasper County, naming a six-member Board of Trustees. This act ended the junior college's 27 years of existence as a part of the Joplin Public School System. The new junior college district included Jasper County and parts of three other counties — Newton, Lawrence and Barton. The institution was renamed Jasper County Junior College.

On July 22, 1965, the 73rd General Assembly of the Missouri Legislature passed House Bill No. 210 providing for the establishment of a two-year state senior college in Jasper County when the academic facilities of the Junior College District of Jasper County should become available. Meanwhile, in anticipation of the passing of the House Bill No. 210, the Board of Trustees adopted the name Missouri Southern College in May, 1965.

The legislative act creating the state senior college provided for the administration of the junior and senior college through a governor-appointed Board of Regents. The appointments were made on October 13, 1965, the date that marks the beginning of the operation of Missouri Southern State College under the Board of Regents. The law directed the Board of Trustees to assume the responsibility of levying the necessary taxes within the Junior College District of Jasper County which, together with state junior college aid and funds available from other sources, are sufficient to pay the costs of the junior college operation and the costs to date of capital improvements for both the junior and senior colleges. The state provides the operating cost of the senior college.

COLLEGE PROFILE

July 1, 1975, on the campus of Missouri Southern State College, the Governor of Missouri signed Senate Bill No. 114. This bill provided that from July 1, 1977 forth the State of Missouri will provide the funds necessary to provide the staff, cost of operation, and the payment of all capital improvements. Thus following approximately ten years of legislative effort by the citizens of Southwest Missouri, this college has taken its place with the family of higher education institutions in the State of Missouri.

COLLEGE PHILOSOPHY AND PURPOSES

Missouri Southern State College is dedicated to the principle of developing a college community where all members are given the opportunity to learn, not only for the sake of learning, but for the purpose of revealing ways to live a better life.

Missouri Southern State College offers a diversity of study designed to satisfy a wide range of student and community interests. The college endeavors to maintain quality instruction at all levels.

Missouri Southern State College shares a responsibility with other state colleges to serve any eligible student in the State of Missouri who may apply for admission. In addition, the college also recognizes its responsibility and obligation to serve the citizens of the immediate community.

The college fulfills its obligation to both state and community by:

a. Providing an opportunity for students to pursue a wide range

of cultural and intellectual interests.

b. Providing an opportunity for students to prepare for a wide range of established and emerging careers in industry, education, government, and business.

c. Providing a variety of pre-professional and technical pro-

grams at less than the bachelor's degree level.

d. Providing a variety of continuing education and extension course opportunities for individuals at all levels of educational attainment.

e. Providing an opportunity for students to prepare for a grad-

uate education.

STANDARDS FOR STUDENT CONDUCT

As active members of the college community, students at Missouri Southern State College have the rights and privileges enjoyed by members of all democratic communities. They also have the responsibilities and obligations which accompany these rights. Missouri Southern State College is guided by and observes the principle that there shall be no difference in the treatment of persons because of race, creed, color or national origin; and all members of the academic community are expected to support this principle.

Students have the responsibility of upholding the standards, traditions and policies of the college which has granted them membership in the academic community at their own request. They also have the responsibility of making maximum use of their abilities, of exercising good judgment, of observing the rights of others, and of adhering to the requirements of adult

society.

In addition, the following general policies are in effect:

1. Students have the obligation to obey all rules and regulations and to preserve all property provided for their education.

2. Students are expected to conform to all federal, state and local laws. Gambling, alcoholic beverages, drugs, firearms, ammunition and explosives are specifically prohibited on college property. Students should be aware of the principles of libel and slander. Practice of these principles within the academic community could result in expulsion from the college.

3. The conduct of the individual student is an important indication of his character and of his future potential in life. Cheating, falsification of documents and immoral conduct will not

be tolerated.

4. Students are expected to conform to the usual accepted

social customs of the community.

5. Students shall not engage in or incite others to participate in obstructive or disruptive activities, deprive others of their rights, do harm to other individuals or property, or interfere with college or other officials in the performance of their duties.

6. The College Union of Missouri Southern State College and its facilities are dedicated to and for the primary use of the students, faculty, staff and their authorized guests. Individuals entertaining guests in the College Union are responsible for their proper identification, registration and conformance to the rules established for such guests. When not in use by campus organizations, off-campus groups may use the facilities of the Union.



7. The facilities of the Residence Halls at Missouri Southern State College are primarily for the use of the residents thereof and their invited guests. The host is responsible for the registration and conduct of his guests. Disciplinary action will be taken against non-residents making unauthorized use of residence hall facilities.

8. The prevention of fire and the safety of others is the responsibility of the individual. Students shall not set off false fire alarms, misuse fire equipment, or refuse to obey lawful

directions by fire wardens.

The foregoing shall apply to all student conduct, and failure to observe these standards will constitute basis for disciplinary action, the maximum of which is dismissal from the College. Registration and participation as a student in Missouri Southern State College shall constitute full acceptance of these standards, as well as of all other rules and standards of conduct which have been or may be adopted.

ACCREDITATION AND MEMBERSHIPS

Missouri Southern State College is accredited by the North Central Association of Colleges and Secondary Schools, the National Council for Accreditation of Teacher Education, and by

the Missouri State Department of Education.

Major memberships include the American Council on Education, the American Association of State Colleges and Universities, the American Association of Colleges for Teacher Education, the Missouri Association of Junior Colleges, and the North Central Association Sub-Committee on Institutions for Teacher Education.

THE CAMPUS

Missouri Southern State College is located at the corner of Newman and Duquesne Roads near the northeast edge of Joplin. Sixteen new buildings and several remodeled older buildings serve the instructional and student activity needs.

Spiva Library, named in honor of the late George A. Spiva of Joplin, a friend and generous supporter of the college, provides an atmosphere which contributes to an intellectual climate. It is a part of the **Learning Resources Center** which includes the **Instruc-**

tional Media Center as well as the Library.

Hearnes Hall is named after the Honorable Warren E. Hearnes, former Governor of Missouri. The building is the administration headquarters and the reception center of the campus. It contains, also, instructional classrooms and faculty offices.

The L. R. Reynolds, Jr., Science and Mathematics Hall provides three large, elevated lecture rooms, regular classrooms, science laboratories and faculty offices. It is well equipped to meet the requirements of science and mathematics programs.

The Fine Arts Complex is a series of three buildings that serves the areas of Art, Music, and Theatre. The Art Building includes a large exhibit hall that serves the Spiva Art Center of Joplin as well as the needs of the college. The Music Building includes a beautiful recital hall that was recently dedicated in honor of our past Vice President for Academic Affairs, Dr. Edward S. Phinney, the third building in this complex is the showplace of the campus, a 2000-seat auditorium. This auditorium is used extensively by the community, by the theatre department, and by other agencies of the college.

The Physical Education Building houses the college basketball floor, classrooms, faculty offices, and many facilities for physical

education classes.

The College Union serves the total campus with cafeteria, coffee shop, bookstore, lounge areas, Student Senate offices, yearbook offices, faculty lounge, ballroom, etc.

The Business Administration Building is a combination of the old Mansion House and the new building addition. It houses

specialized and regular classrooms and faculty offices.

The Barn Theatre is a barn converted into an air-conditioned theatre with classrooms, dressing rooms, costume rooms, ticket

booth and fover.

Kuhn Hall is a new structure that provides facilities for the nursing education program, computer center and the student health center. This building is named after Dr. J. R. Kuhn, Jr., a strong supporter and leader of the nursing education program at Missouri Southern State College. The Student Health Center is located in Kuhn Hall. A full-time registered nurse is on duty and medical doctors from the community provide services at stated hours.

The Technology Building is a new structure that provides facilities and faculty offices for Automotive Technology, Machine Technology, Drafting and Design, and classrooms for other

instructional activities.

The College Placement Building is headquarters for the College Placement Services and Alumni Offices. It contains offices, interviewing rooms, and one academic facility — the reading

laboratory.

The Police Academy Building is a new structure that houses the Campus Security Office and offices for the director and faculty of the Law Enforcement Department plus specialized classrooms for Academic and Academy programs in law enforcement. A complete photographic laboratory and a criminalistics

laboratory are also located in this building.

The North Hall houses 200 men. It is an attractive and modern residence hall, completed in the Spring, 1970.

The South Hall was also completed in the Spring, 1970, and

will accommodate 110 women.

The Stadium adds a new dimension to the campus. This complex seats approximately 7500 fans. The field is the only Astro Turf athletic field on any campus in the State of Missouri. This complex also features an all-weather, artificial track.



SCHEDULE OF FEES

Students must pay fees at the regular time of registration each semester or have their registration automatically cancelled. Contractual arrangements for unique hardship problems must be arranged with the Vice President for Business Affairs or his delegated representative prior to registration. Any failure to live up to the contractual agreement also automatically cancels the registration. The College reserves the right to change fees without notice.

INCIDENTAL FEES	Each Fall and Sp 8 Hours or more	oring Semester Less than 8 hours	Summer Term
Residents of Missouri	\$175	\$17 per hr.	\$17 per hr.
Non-Residents (Out-of-State)	\$370	\$27 per hr.	\$27 per hr.
OTHER FEES: Application for admission Applied music Change of class schedule Commencement Laboratory breakage and mat Late registration (full time) (part time) Radiologic Technology special First Term All other terms, each Student activity Textbook rental and service of (50% refundable): Spring and fall semester (over 8 hours) Spring and fall semester (under 8 hours) and summer term	al fees	\$ 5.00 48.00 per cree 2.00 10.00 cost 10.00 5.00 100.00 40.00 10.00 30.00 6.00 per cou	
Transcripts RESIDENCE HALL COST (Per Refundable Security Depo		1.00 \$490.00 40.00	

Charges may be paid in full or in four installments per semester. If the installment plan is chosen a ten dollar (\$10.00) administrative charge will be assessed and the following schedule will be observed:

First Semester	Second Semester
August 1 \$125	January 1 \$125
October 1 125	February 1 125
November 1 125	March 1 125
December 1 125	April 1 125

(See detailed explanations below.)

Application for Admission: A non-refundable application fee of \$5.00 is charged for processing applications for admission. The payment of this fee should be mailed with the application.

Applied Music: For one 30-minute lesson per week in applied music, the usual fee is \$32.00 per credit hour.

Change of Class Schedule: Students are charged \$2.00 for each class change made after classes begin (refer to College calendar). Students registered for 8 or more credit hours before and after the change in schedule will pay only the \$2.00 fee. Those changing from 7 or less hours to 8 or more hours must pay the full incidental and textbook fees and the \$2.00 change fee. Those who are registered for 8 or more hours and change to 7 or less hours during the change-of-registration week will receive a refund and will be charged by the credit hour.

Commencement: Candidates for the Associate or Baccalaureate degrees are charged a \$10.00 commencement fee. This covers the cost of the diploma, cap and gown, and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

Evening Session: Students enrolled in evening classes for regular college credit courses, applicable toward an Associate or Baccalaureate Degree, are subject to the same fees, rules and regulations of the Day Session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an Associate or Baccalaureate Degree.

Laboratory Breakage and Materials: There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects. (Example: automotive parts.)

Students enrolled in chemistry are required to purchase a \$10.00 laboratory breakage card which may be redeemed for this full amount at the end of the semester, providing there has been no breakage or loss on the part of the student.

Late Registration: A late registration fee of \$10 is charged full-time students who register after classwork begins. Five dollars is charged part-time students. This fee is not refundable.

Miscellaneous Fees: Occasionally a fee is charged for classroom materials, such as subscriptions to a periodical, line charges for bowling in physical education, film developing in photojournalism, or purchase of paperback books in addition to the textbook rental.

Student Activity: This charge is to support activities of the Student Senate and the College Union Board. Students enrolled in less than eight hours during a semester may purchase a student activity ticket at the Business Office.

Summer Session: Rules and regulations which govern admission to the first and second semester during the regular school

year shall also apply to the Summer Session.

Textbook Rental and Instructional Services: Students enrolled during a semester in eight or more credit hours pay a \$15.00 non-refundable textbook rental fee (includes normal laboratory fees and cost of service on instructional equipment) and a \$15.00 textbook deposit. Students enrolled in less than eight credit hours during any semester pay a \$3.00 deposit and \$3.00 rental for each course in which they are enrolled. The deposit is refunded when the student has returned all books, materials, and equipment in satisfactory condition. (Books may be purchased at the end of the term for full retail price less an allowance for rental charges paid by the student.)

Towel Fee: A \$1.25 fee is charged each semester to students enrolled in the "physical activity" classes. A towel and the weekly

laundry of it is furnished by the College.

Transcripts: Each student is entitled to two official transcripts without charge. There is a charge of \$1.00 for each additional copy. Payment must accompany the request for each transcript.

REFUND POLICY (Except for Residence Hall Charges)

Students enrolled in the fall and spring semesters who drop out of the College before the tenth week of the semester are entitled to a partial refund of refundable fees. The refund must be claimed during the term for which the refund applies. The refund will be computed as of the date the Registrar receives the withdrawal form completely and correctly executed. The refund schedule is as follows:

Within the first and second weeks 80 percent refund From the third thru the ninth week 50 percent refund After the ninth week No refund

Summer term refunds are as described above, except that no refunds are given after the fourth week.

STUDENT SERVICES

The maximum intellectual growth and personal development of the college student is a combination of academic study and participation in out-of-class activities. Therefore, the educational program of Missouri Southern State College includes all student-college relations in addition to formal instructions.

The student services are designed to supplement, complement and implement the academic program of the College.

FINANCIAL AIDS

MISSOURI SOUTHERN STATE COLLEGE ACADEMIC SCHOLARSHIPS

General Information

Missouri Southern State College participates in a variety of programs for student assistance. These funds are from all levels: private, institutional, state and federal, which are coordinated to meet the individual student needs.

The "floor plan" of the Federal Assistance Programs is the Basic Education Opportunity Grant. All students applying for aid must file the Basic Educational Opportunity Grant Application Form. Because financial aid is based upon financial need, each student must also file an American College Testing Program Family Financial Statement, as well as the institutional application when applying for National Direct Student Loans, College Work Study, Supplement Educational Opportunity Grants, and Nursing Loans. Students may apply for Federally Insured Student Loans and Veterans benefits. These programs are not issued on a need basis. State and Institutional scholarships are available to students who must complete the appropriate application. These awards are based on various criteria. All programs and awards are coordinated with the Basic Grant to meet the student needs. These funds are awarded without regard to race, creed, national origin, sex, or color.

THE REGENTS AND TRUSTEES SCHOLARSHIP

The President's Scholarships

These scholarships are awarded by the Board of Regents and the Board of Trustees of the college and are administered by the principal of the recipient's high school.

Basis of Selection:

The scholarships are awarded to the first and second ranking students in the eight high schools located in Jasper County.

The Regent's Scholarships

These scholarships are awarded by the Board of Regents and the Board of Trustees of the college directly to the student by the college on the basis of American College Test scores or to Jr. College transfer students on the basis of college hours and level of G.P.A.

Basis of Selection:

The scholarships are awarded to high school graduates who achieve a twenty-three composite score on the ACT taken during a regular scheduled National Test Date.

The scholarships are also awarded to Jr. College transfer students who have completed a minimum of 55 hours and have a 3.0 or above grade point average.

Missouri Southern State College Patrons' Scholarships

The following scholarships have been made available by interested individual service organizations, business firms, industries, and local civic organizations.

STUDENT PERSONNEL SERVICES

PATRON SCHOLARSHIPS

PATRON SCHOLARSHIP	S	THE RESIDENCE
Donors	Number of Scholarships	Value of Each Scholarship
AAUW-Dorothea Hoover Memorial	1	\$360
American Business Women's Association of Carthage	2	\$350
American Business Women's Association of Joplin	3	\$200
Anonymous No. 1	5	\$200
Anonymous No. 2	2	\$250
	1	\$100
Anonymous No. 3	1	\$200
Anonymous No. 4	1	\$100
Anonymous No. 5	1	\$200
Anonymous No. 6	1	\$200
Anonymous No. 8	1	\$200
Anonymous No. 9	3	\$200
Auxiliary Jasper County Medical Society	2	\$200
Bank of Carthage	4	\$200
Russell Belden Memorial	2	\$150
Briarbrook Men's Golf Association	1	\$200
Bob Chaplin Memorial	1	\$200
Citizens Bank of Carl Junction	1	\$200
William H. Clark Memorial	2	\$150
Ada Coffey Memorial	1	\$200
Commerce Bank of Joplin	1	\$100
Community National Bank of Joplin	1	\$100
Frank Croddy Memorial	4	\$200
Dickinson Foundation	10	\$300
Edna Drummond Memorial		\$200
Electric Motor Supply	1	\$200
Empire District Electric Co.	10	\$200
Engineering - Math - Physical Science	1	
Fifteenth Street Lumber Co.	2	\$300
First National Bank of Sarcoxie	2	\$200
First State Bank of Joplin	1	\$200
Forty and Eight	1	\$100
Gilmarbeck Music	1	\$200
Mr. & Mrs. Harry Gockel	1	\$200
Shirley Gollhofer	1	\$125
Charles A. Green Memorial	1	\$100
Joe Harding Supply Company	1	\$200
Harlan-Mosler Memorial	1	\$200
Robert Higgs Memorial	1	\$200
Mrs. Dorothea Hoover Memorial	1	\$200
Hercules Incorporated	2	\$250
Holiday Inn Executive Secretary Club	1	\$200
Henry Hornsby Memorial	2	\$250
Mr. & Mrs. Fred Hughes	2	\$250
C. C. Ivie Memorial	1	\$100
Jasper County Medical Society	2	\$200
Freeman Johnson Memorial	5	\$200
Mr. & Mrs. Marvin Dunn	1	\$100
Ioplin Area Association of Retarded Citizens	4	\$200
Joplin Association of Educational Secretaries	2	\$ 50
Ioplin Board of Realtors	3	\$200
Ioplin Association for Childhood Education	1	\$200
Joplin Business & Professional Women's Club	2	\$200
Joplin Downtown Lions Club	1	\$300
Joplin Exchange Club	2	\$200
John Englande olde		

Joplin Federal Savings & Loan Association	1	\$200
Joplin Rangeline Lions Club	1	\$240
Joplin Rotary Anns	2	\$200
Joplin Rotary Club	6	\$200
Joplin White Trucks Inc.	1	\$250
Joplin Women of Kiwanis	1	\$200
KFSB - George A. Spiva Memorial	1	\$160
KOAM - TV	1	\$300
KODE - TV	1	\$200
KQYX	1	\$200
KTVJ - TV	1	\$100
Martin Luther King, Jr. Memorial	4	\$500
Kiwanis Foundation of Joplin	4	\$200
Dr. J. R. Kuhn, Jr.	3	\$200
Arthur Kungle, Sr.	11	\$200
Harry H. Landreth Memorial	1	\$200
Master Made Paint, Inc.	2	\$200
Merchants & Miners Bank - Webb City	1	\$200
Mid-Western Machinery Company	2	\$200
Midwest Materials Company	1	\$200
MSSC Alumni	3	\$200
MSSC Faculty Wives	1	\$300
MSSC Secretaries	1	\$100
Mitchell - Clayton Memorial	1	\$200
Newton's Jewelry	1	\$200
Florence Nightingale	1	\$200
Ralph Nolan Memorial	1	\$200
Northpark Lions Club	1	\$100
Edward S. Phinney Memorial	1	\$300
Pilot Club of Joplin	2	\$200
Bobbie Record Memorial	1	\$200
Anna Marie Redden	1	\$230
L. R. Reynolds, Jr. Memorial	1	\$200
Rho Eta #185 of Joplin	1	\$100
Roper Pontiac, Incorporated	1	\$200
William H. Sisk Memorial	1	\$200
Connie Smith Art Scholarship	1	\$100
Soroptimist Club of Carthage	1	\$270
Soroptimist Club of Joplin	1	\$200
Southtown Meat Company	1	\$200
Southern Mo. Distributors, Inc.	2	\$200
Zella F. Spiva Memorial	1	\$200
George A. Spiva Memorial	1	\$500
Harry Spradling Memorial	1	\$200
St. John's Medical Center Auxiliary	1	\$300
Dan L. Stanley Memorial	1	\$200
Vera Steininger Memorial	1	\$170
Dorothy Stephenson Memorial	5	\$200
Student National Education Association	2	\$100
Mrs. Madge A. Sullivan	1	\$200
Dr. A. Paul Thompson	1	\$200
Tri-County Pharmaceutical Representatives	1	\$200
United Missouri Bank of Carthage	1	\$200
United Missouri Bank of Joplin	1	\$200
Art Walkins Scholarship - Golf	1	\$200
Dennis Weaver	2	\$250
Webb City Area Jaycees	1	\$200

Webb City - Carl Junction Rotary	2	\$200 \$100
Christine Webster Memorial Welcome Wagon Club	1	\$200
Dr. & Mrs. John Windle	1	\$200

SPECIAL AWARDS

Edward S. Phinney Memorial Scholarship: This memorial scholarship has been established to honor the late Dr. Edward S. Phinney, Vice President for Academic Affairs. Dr. Phinney was Dean of the College from 1967 to 1973. The scholarship will be given each year to a student who has achieved academic excellence while attending Missouri Southern State College.

Edna C. Drummond Memorial Scholarship: The intent of this scholarship is to give appropriate recognition for academic excellence and for the purpose of assisting students in the science department. The number of scholarships awarded each year varies. Miss Drummond was a former instructor of

Joplin Junior College from 1938 to 1955.

Spencer F. Bartlett Respect Award: The intent of this award is to give special recognition to a graduating male and female student who has the greatest respect for God, U. S. of America, and has maintained average grades or better while attending Missouri Southern State College. The amount of the award varies each year.

PERFORMING AIDS & AWARDS

Awards are made to individuals who have demonstrated success or high potential in basketball, football, music, dramatics, math, forensic, golf, baseball, track, and journalism. These individuals must show satisfactory progress in these college performance areas in order to continue the aid. Applications for performing aids should be made to the director or sponsor of the particular activity.

Director of Theatre **Forensic Director** Director of Math League Director of Music Activities Director of the School Paper (Chart) Director of the School Yearbook (Crossroads)

Baseball Coach Basketball Coach Football Coach Golf Coach Track Coach

For women's activities write directly to the Director of Women's Athletics.

BASIC EDUCATIONAL OPPORTUNITY GRANT (BEOG)

The Basic Educational Opportunity Grant Program is a Federal Aid Program designed to provide financial assistance to those who have a financial need. Basic Grants are intended to be the "floor plan" of financial assistance, and may be combined with other aid programs to meet the full cost of education. Each student must fill out the "Application for Determination of Basic Grant Eligibility." After processing the application, Basic Grant will send a "Student Eligibility Report" to each applicant. Upon receipt of the "Student Eligibility Report," the student must take the report to the Financial Aid Office where the amount of the Grant will be determined. Students will receive one half of their Basic Grant each semester.

EDUCATIONAL OPPORTUNITY GRANTS - (EOG)

Missouri Southern State College has funds for a limited number of Educational Opportunity Grants. Under this program grants may be awarded to students

with exceptional financial needs.

Students who have received EOG funds in prior semesters at Missouri Southern State College or other institutions will be given preference. This type of financial assistance must be matched with other types of aid such as scholarship, work, or loans.

WORK

Student Employment

The college Student Employment program is a work program set up by the college to assist those students who desire employment while attending school. In this program students may work 15 hours a week while attending classes and up to 40 hours a week during the vacation periods. Preference is given to those students who are qualified to fill the job openings and have had experience in fields related to the job openings. Employment is on campus only.

Federal Work-Study Program

The Federal Work-Study program is a program whereby students who must have a job to help pay for college expenses may be employed by the college or certain other non-profit agencies. Preference must be given to students from low-income families. In this program students may work 15 hours a week while attending classes and up to 40 hours a week during summer and other vacation periods when they do not have classes.

LOANS

Nursing Loan

This program has been established to assist those students who wish to complete requirements for nursing. Maximum amount loaned per year is \$2500. These loans are given at three percent (3%) interest. Interest begins nine months after the students leave school. This loan has a cancellation clause. (See Financial Aids Office.)

Law Enforcement Loan - (LEEP)

This program has been established to encourage students to enroll in the Law Enforcement Program. These loans carry an interest rate of seven percent (7%) with special consideration given to law enforcement officers who are presently employed full-time. This loan has a cancellation clause.

National Direct Student Loans - (NDSL)

High school graduates who are accepted for enrollment at Missouri Southern State College and who need financial assistance to pay enrollment fees and other costs are eligible for student loans. The loans bear no interest until nine months after the student ends his studies. This applies whether the individual remains a student at Missouri Southern State College or transfers to another institution. Nine months after the student ceases his studies the unpaid balance of the loan begins to draw interest at the rate of three percent (3%) per year. Repayment of the loan may be as low as \$30.00 per month and, depending on the amount of the loan, may be extended over as much as a ten-year period. Repayment of these loans may be deferred up to a total of three years while a borrower is serving in the Armed Forces, with the Peace Corps, or VISTA.

FEDERALLY INSURED STUDENT LOANS (FISL)

Federally Insured Student Loans are processed through the Financial Aids Office and approved through local lending institutions. Full time students with an adjusted income of less than \$15,000 qualify for the loan program. Students with adjusted incomes over \$15,000 may qualify for the loan but, would not receive the interest benefits it provides. The loan amount is established by the lending institution up to a maximum of \$2,500 per academic year. The Federally Insured Student Loan differs from the National Direct Student Loan in that approval comes directly from the lending institution and the interest rate is 7%. Repayment procedures are identical to the National Direct Student Loan in that the interest and payments begin nine-months after the student graduates from school. Applications are available in the Financial Aids Office.

SHORT TERM LOANS

Students presently enrolled full time or who have been accepted for admission may apply for short term loans to assist with tuition and fees. The amount of the loan may not exceed 50% of the students tuition and fees. All loans are due by the eighth week of the semester (fourth week of the summer term).

All qualified applicants for short term loans will be considered without regard to race, color, creed, sex, or national origin.

Small, Short-Term Loans

- David Pearl B'Nai B'Rith Loan Fund
 This fund was established in memory of David Pearl, a member of the above fraternal organization.
- Mitchell Loan Fund
 This fund was established in memory of Thomas Mitchell.
- Joplin Business and Professional Women's Club Loan Fund This fund was established to assist students in need.
- Arnold E. Irwin Loan Fund
 This fund was established to assist students in need.
- Arnold E. Irwin Loan Fund
 This fund was established in memory of Mr. Irwin who was a faculty member of Joplin Junior College.
- Patricia Smith Memorial Loan Fund
 This loan fund was established in 1969 in memory of a former Missouri Southern State College student by the Joplin Exchange Club and friends.
- Edna F. Gaither Memorial Fund This fund was established in memory of Edna F. Gaither who was a teacher in the Joplin school system for 50 years.
- Joplin Life Member Club Telephone Pioneers Loan Fund This fund was established to assist students who need financial assistance for the academic year.
- Joplin Rangeline Lions Club Emergency Loan Fund
 This fund was established to help students who have an emergency.
 These funds are available immediately and were provided by the Lions Club so that the problems of finance would not be a part of the student's emergency.
- Dan Howard Memorial Fund
 This fund was established to assist students in need who are studying in the fields of Nursing, Pharmacy, Optometry, and Medicine.

How To Apply For Financial Aid

- Complete the Basic Education Opportunity Grant. When the three copies of the Student Eligibility Report are received, bring them to the College Financial Aid Office.
- 2. If applying for work, loans, and grants, complete the American College Testing Program Family Financial Statement and the College Financial Aid Application.
- 3. Applicants for Federal Insured Student Loan Program should complete the Federal Application and contact a local lending institution.
- 4. Applicants for financial aid must have completed a satisfactory financial aids program well in advance of each semester's registration and have on file in the Financial Aids Office all forms pertaining to the type of aid requested.

For further information regarding financial aid:

Office of Financial Aid Missouri Southern State College Newman & Duquesne Roads Joplin, Missouri 64801 417-624-8100

On Campus Residency Requirement

"All freshmen and sophomore men and women are required to live in the Missouri Southern State College Residence Halls to the extent available, unless they are married, live with their parents, live with a relative (by blood or by marriage), or are excused by the Dean of Student Affairs."

Residence Facilities

Limited college residence facilities are planned for those who are enrolled as full-time students in Missouri Southern State College.

Two permanent residence halls, one with accommodations for 200 and one with accommodations for 110, are available. They are located at the heart of the campus near the new College Union, the library, classrooms, and the gymnasium

The large first floor lounge and recreation areas are the central features of each building. Each room will have beds, closets, built-in desks and desk chairs. Coin operated laundry facilities are available in the Halls. Private telephones may be installed in each room with the occupants assuming responsibility for the installation charges plus the monthly telephone bill.

Contractual Arrangements for Residence Halls

An application and contract accompanied by a \$40 security deposit fee is required for reservation in a College Residence Hall. This is a combined contract for room and meals. The \$40 security deposit is forfeited if the contract is cancelled after July 31 for the fall term, or in case of new students, after December 31 for the spring term. The College retains the \$40 as a security deposit as long as the student is in residence and this deposit is not applicable to the housing account. The deposit will be refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract is effective for the entire academic year (fall and spring semesters); or is effective for the remaining portion of the academic year when entered into after the beginning of the fall term.

A student may request cancellation of the contract at the end of a term because of completion of graduation requirements or if an emergency beyond his control necessitates his withdrawal from school. If this request is filed with the Housing Director at least before the end of the term, and if approved, the deposit may be refunded unless there is a damage charge, outstanding account, or other violation of the contract. Students should refer to contract for detailed terms.

The College reserves all rights in connection with room assignments which are made in the order in which applications are received. Students' preferences are considered, but there can be no guarantee that assignments will be made in accordance with the preferences.

The residence halls and food services are operated on a non-profit basis by the College, and the established rates are subject to change by action of the

Board of Regents. Twenty meals are served each week.

Residence hall rooms may not be occupied by students earlier than 24 hours before they are required by the College to be in attendance. Students are to vacate rooms 24 hours after the term officially closes.

Reservations in residence halls are not held beyond 36 hours after the student is required to be on campus unless special arrangements have been

made with the Housing Director.

The College is not responsible for the loss of, or damage to, any personal property of students. Parents should arrange for insurance coverage of personal property within the framework of their regular household policies.

College Union

The College Union is a social, cultural, recreational, and service center for student, faculty, and alumni. The activities in this building are planned and directed by the College Union Board.

On the ground floor are located various offices, the bookstore, the lounge,

and a snack bar.

The ballroom and special meeting rooms are located on the upper level of

the College Union.

The cafeteria, the faculty lounge, and the food service offices are located on the main floor. An elevator connects the three floors.

Social Standards

A student attending Missouri Southern State College is expected to maintain a high standard of moral conduct. Forfeiture of the privilege to attend may result from unsatisfactory conduct. Students are expected to demonstrate maturity in their judgment.

Appropriate dress is expected on the campus during the regular school

day.

Missouri Southern State College does not permit the use of alcoholic beverages on campus. Any violation to this rule is subject to disciplinary action.

Smoking is prohibited in the library and in classrooms.

Career Counseling and Placement Services

The Placement Office, usually associated with the task of matching people and jobs, offers an equally important service through career counseling, aiding students in clarifying their educational and vocational objectives. An understanding on the part of the student of his interests, aptitudes, limitations, etc. and a knowledge of the world of work makes matching an individual's qualifications with a job much easier and certainly more

gratifying to all parties concerned. Students are invited to use career counseling

and placement services early in their pursuit of a formal education.

Although Missouri Southern State College is considered to maintain centralized placement services, the Placement Officer coordinates the functions of his office with other guidance and counseling services available to students on campus. The services more specifically related to finding employment are centered in the Placement Office.

A collection of information folders supplied by major business establishments, industries, governmental agencies and educational institutions are made readily accessible in the Placement Office Library. A record of current information on job opportunities and announcements of on-campus interviews is either posted on bulletin boards or bound in notebook form for student use. Students

are invited to visit the Placement Office regularly.

Candidates for graduation must register with the Placement Office. Registration involves answers only to several basic questions. Since employers usually request credentials of a potential employee before making final judgment on their selection, most graduates will want to develop a set of credentials for the Placement Office files. The Placement Office personnel provide assistance in the development of credentials. Credentials are retained in the Placement Office files indefinitely and may be updated, declared inactive or activated only by the student upon written request.

Student Health Center

A Student Health Center is available and is staffed with a full-time registered nurse and the services of a physician are available upon call. This new facility

was designed with the latest health techniques in mind.

The out-patient clinic hours are from 8:00 a.m. to 4:00 p.m., Monday through Friday during the regular school year. No charge will be made for service during these hours but students are expected to pay for prescriptions, medications, diagnostic tests, ambulance service or minor surgery, except where covered by any insurance the student or his family may have. The College reserves the right to adjust benefits to the students within the limits of the funds made available for the health services through incidental fees paid by students.

Student Insurance

A voluntary accident and sickness insurance plan for students at Missouri Southern State College is available. It is designed as a supplement to the health services already offered to all full-time students through the Health Center. This voluntary insurance program also covers emergencies and provides further protection while the student is away from the campus on weekends or on vacation, including the summer months.

Counseling and Testing Center

The Counseling and Testing Center is located in the Student Personnel complex on the first floor of Hearnes Hall. The services of the Center are available without cost to Missouri Southern State College students.

Assistance is offered the student in dealing with academic, vocational and personal decisions which may help the student to realize his or her potential.

A library of career and vocational information is available to the student as well as information about graduate schools. Vocational interests and aptitude tests are available without charge to students of the college.

Information and/or registration forms are available for many national tests (i.e. Graduate Record Exam (GRE), Medical College Admission Test (MCAT),

Graduate Management Admission Test (GMAT).

The Center serves as a national test center for the College Level Examination Program. CLEP. Information and registration for college credit by examination is available from the Center.

Veterans

All courses listed in the Missouri Southern State College Catalog are approved for benefits administered through the Veterans Administration under Section 1775, Title 38, U. S. Code. Veterans or dependents wishing to apply for Veterans benefits should contact the Veteran Affairs Office for assistance.

Student Activities

Opportunities for participating in a wide variety of out-of-class activities are provided at Missouri Southern State College. Students are encouraged to investigate the wide choice of activities and are invited to participate in one or more of these aspects of the College program.

Student Senate—The responsibility for student government rests not only with the student officers and student boards and committees but also with each member of the student body. The growth and development of Missouri Southern State College student government will be proportionate to the participation by the students.

The Student Senate serves as the governing body for students and acts as an intermediary between the faculty and student body. Members of the Student Senate gain experience in the functions of a student government and strive to promote the objectives of the Student Body Constitution.

The membership of the Student Senate consists of the Student Body Executive Officers, the officers from each class, and a number of senators representing each class. The student body executive officers for the summer cabinet for the following year are elected late each spring. The class officers and student senators are elected early each fall. Interested students petition and campaign for office

College Union Board—The activities in the College Union are planned and directed by the College Union Board. The College Union Board, composed of seven students and three faculty members, serves as an advisory board to the College Union Director.

The College Union Board began functioning in September, 1969. The Union Board has four major committees: cultural affairs, forum, recreation and films, and dance. The College Union Director, with the aid and advice of the College Union Board, attempts to provide varied activities for the student body.

Students serving on the College Union Board are elected each spring. Qualified students are urged to file for election to these offices. The Dean of Women, Dean of Men, and one faculty member, appointed by the Dean of Student Personnel Services, complete the ten member board.

STUDENT ORGANIZATIONS

The College encourages student organizations which provide for the professional, social, academic, divisional, religious, political, or service interest of the students. New organizations may be established when approved by the Student Government and the College Administration.

Student Government
Student Senate
College Union Board

Honor Groups Alpha Psi Omega Phi Theta Kappa

Classes

Senior Class **Junior Class** Sophomore Class Freshman Class

Departmental Groups

Art League

Association for Childhood Education Association of Women Students

Beta Beta Beta

Chi Epsilon Phi

College Players Computer Science League

Epsilon Gamma

Industrial Technology Club

Kappa Mu Epsilon Lambda Epsilon Epsilon

Letterman's Club Mathematics Club

Modern Language Club MSSC Compass Club

MSSC Student Chapter of Council

For Exceptional Children Missouri Southern Student **Education Association**

Omicron Delta Epsilon Psychology Club

Rho Epsilon Chi (Phys. Ed.) Society for the Advancement of

Management

Departmental Groups (Cont'd.)

Sociology Club

Student Nurses Association

Religious Organizations

Baptist Student Union

Ecumenical Campus Ministry Inter-Varsity Christian Fellowship

Koinonia

General & Service Organizations

Afro-American Society

Chess Club

Cheerleaders Circle K Club

Council on International Relations & United Nations Affairs (CIRUNA)

North Hall Council MSSC Soccer Club

MSSC Veteran's Organization

Rotaract

South Hall Council

Young Democrats Club Young Republicans Club

Social Fraternities

Kappa Alpha Sigma Nu

Social Sororities

Delta Gamma Lambda Beta Phi Panhellenic Council

Zeta Tau Alpha

STUDENT INTERESTS

Athletics—Missouri Southern State College, having become a four-year institution as defined by athletic associations, has received membership in the National Association of Intercollegiate Athletics. The college participates in the following intercollegiate activities: basketball, football, track, baseball, golf, tennis.

To be eligible for participation, students must meet the scholastic requirements of the NAIA.

The Chart staff publishes 18 issues of the College newspaper. Throughout the year the editorial division uses the work of many reporters, feature writers, cartoonists, and typists. The business staff offers experience in advertising, salesmanship, and secretarial practices. Those wishing to freelance should attend weekly staff meetings.

The Crossroads (The College Yearbook) is produced by a student staff with faculty sponsors. The annual Crossroads Ball is climaxed by the crowning of the Crossroads Queen. Students who work on the yearbook staff receive valuable experience in school publications.

Debate—A forensics program featuring college debate offers opportunities to any student interested in argumentation. An intercollegiate debate team was first organized in the fall of 1970.

Music—Participation is available for all qualified students in Choir, Vocal Ensemble, Marching Band, Concert Band, Stage Band, Brass Choir and Orchestra with instructors consent.

Theatre—The theatre department sponsors four major drama productions in the campus theatre for which all MSSC students are eligible to try out. Advance announcement is made before each try-out. In addition to the major productions, there are experimental and reader's theatre presentations and performing workshops. Sponsored by the local chapter of Association

for Childhood Education and presented by the speech and drama department, a series of children's plays are presented each year at the local junior high schools. Try-outs for these are open to every full time MSSC student in good academic standing.

The Winged Lion is a creative arts magazine featuring student contributions in art and literature. This student-edited publication provides a creative outlet for students and is published once each fall and spring semester. Opportunities exist for those interested in editing and publishing as well as in creative contribution.



ADMISSION AND EVALUATION OF TRANSFER CREDITS

1. Admission Direct from High School.

- A. Residents of Missouri. Any resident of Missouri who, (a) is a graduate of an accredited high school, (b) has participated in the American College Testing Program, (c) presents a history of his health (form provided), and (d) pays a \$5 non-refundable application fee, is eligible for admission to Missouri Southern State College.
- B. Non-Residents of Missouri. A non-resident of Missouri in order to be eligible for admission to study as a first time freshman, (a) must be a graduate of a high school accredited by the Regional Association or by an appropriate accrediting agency of his home state, (b) must have participated in the American College Testing Program or a similar acceptable battery of tests, (c) must rank scholastically among the upper two-thirds of the members of his graduating class, (d) must present a history of his health, (forms provided), and (e) must pay a \$5 non-refundable application fee.

2. Admission as a Transfer Student.

Students transferring from another collegiate institution, (a) must have official transcripts sent to the Director of Admissions by the Registrar from each institution attended, (b) must be eligible to return to their last institution, (c) must present a history of his health, (forms provided), and (d) must pay a \$5 non-refundable application fee. Students seeking admission from other colleges with 55 transfer credit hours or more, must present a minimum C (2.0 on A=4) average.

Transfer students must also take the senior year or 30 out of the final 36

hours in residence at Missouri Southern State College.

3. Special Admission

A Missouri resident, 21 years of age or over, who has not graduated from high school may be admitted on a probational basis. A student admitted under this regulation must make a "C" average over his first semester's work to be eligible to return for the second semester.

4. International Students

Students not citizens of the United States, who wish to apply for admission, should write the Director of Admissions, Missouri Southern State College, for the proper application forms and instructions. Three basic concerns apply to international student applicants: (1) Academic competency; (2) Ability to read and speak the English Language adequately for college level study; and (3) Ability to finance the cost of education at Missouri Southern State College. All applicants from non-English speaking countries must pass the Test of English as a Foreign Language.

5. Credentials Required for Admission.

Students with no college experience are required to furnish credentials as follows for admission to the freshman class:

- A. High School Transcript. An official transcript of high school credits showing that he has met requirements for graduation.
- B. Application. The application for admission must be completed one week before the first day of registration (see college calendar).

This includes all credentials required by the admissions office.

C. Application Fee. A fee of \$5 with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)

D. Medical History. A statement of medical history must be filled in by the student.

E. Missouri Southern State College will require additional credentials from students whose application credentials raise questions about their acceptability into the student body. While the college makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question.

F. Students who do not attend Missouri Southern State College within one year after making application, must submit new credentials when seeking admission again.

G. Admission to Missouri Southern State College does not automatically confer admission to the nursing program, radiologic technology, dental hygiene, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the Department of Nursing Office, Kuhn Hall, the Radiology Department of St. John's Medical Center or Hygiene Department the Dental Office. Applications should be submitted prior to May 1, preceding the Fall Semester during which you wish enter. Each application is reviewed by the Admission Committee of the respective department. See nursing department page 133, dental hygiene department page 88, or radiologic technology under affiliated programs for full information on admission and acceptance criteria.

H. Veterans who plan to attend under the G. I. Bill of Rights or Veterans' Orphans Act must present a certificate of eligibility at the time of registration.

Students transferring from other colleges must present the regular credentials listed above for freshman plus official college transcripts and statements of honorable dismissal from each institution attended after high school graduation.

Former Missouri Southern State College, Junior College of Jasper County, and Joplin Junior College students must inform the Office of Admissions of their intention to return. When necessary, these students will be required to update their credentials.

6. Placement Tests

Missouri Southern State College participates in the American College Testing Program. Scores from this test battery must be presented as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern State College is a test center.

7. Report of Medical History

Each student enrolling at Missouri Southern State College for the first time, regardless of academic classification, must file a report of medical history. This "history" must be reported on the form provided by the Admissions Office.

8. Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one-half the major course requirements for a department unless he has the approval of the Vice President for Academic Affairs.

9. Transfer of Resident Credits from a Junior College

Credits will be accepted by transfer from a junior college to meet lower only. requirements means that students will not receive credit by transfer from a junior college for more than 64 hours. A minimum of 60 semester hours must be earned in a senior college. Upper division courses carrying a grade of D will not be accepted for credit at Missouri Southern State College. Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern State College.

10. Correspondence and Extension Credit.

Missouri Southern will accept a maximum of twelve semester credit hours earned through correspondence and/or extension from another institution if that institution is fully accredited. A current student may not enroll in a correspondence course without prior approval of the Vice President for Academic Affairs.

11. Advanced Standing Examinations.

A student whose travel, employment, extensive readings or other unique educational experiences appear to have given him proficiency in a course required in his curriculum equivalent to that ordinarily attained by those taking the course in regular class, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination.

In addition to having the above qualifications, a student in order to receive credit for an advanced examination must:

- A. Be enrolled in college at the time of the examination;
- B. Not have taken an examination over the course within the preceding six months;
- C. Not have credit in a more advanced course in the same field;
- D. Be working toward a degree at Missouri Southern State College;
- E. Have the approval of the head of the department in which the course is offered.

Students may initiate an examination in the CLEP Program by contacting the Director of Testing and Guidance. A student may initiate a departmental test with the head of the department.

After the student has taken the CLEP Examination, the test will be graded in Princeton, New Jersey. Scores will be sent to both the Vice President for Academic Affairs and the student. If performance is equated as a "C" grade, the Registrar will record the credit.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade, the Registrar will record the credit.

12. Validation Examinations.

A student who has earned credit in a course which Missouri Southern State College refuses to accept because of the method in which the course was taken, or because the institution at which the course was taken was not accredited, may apply for a validation examination. In order to qualify for a validation examination, a student must:

- A. Be enrolled in college at the time he takes the examination;
- B. Present the necessary evidence to prove that he has taken the course;
- C. Get approval from the Registrar, the Division Dean and the Head of the Department in which the course is offered to take the examination;
- D. To initiate the proceedings within the first eight weeks after entering college.

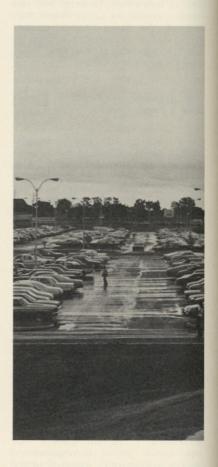
The student initiates his request for examination at the Registrar's Office. The Division Dean and the Department Head will appoint a professor to construct, administer, and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

GENERAL REQUIREMENTS FOR GRADUATION

13. Catalog Used as a Basis for Degree Requirements.

A candidate for a degree may use as a basis for degree requirements the general catalog issued for any year following the date of his first registration in the college, so long as it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence during the year of the catalog selected. The degree requirements in this catalog, 1976-78, become effective June 1, 1976.

14. Degrees



14. Degrees

Major	BA	BS	BSBA	BSED	*BGS	Other
Accounting			X			Associate
Art	X			X		
Automotive Technology						Associate
Biology		X		X		
General Business			X	X		Associate
Chemistry	X	X		X		
Computer Science						Associate
Dental Assisting						Certificate
Dental Hygiene						Associate
Drafting & Design						Associate
Economics & Finance			X			
Elementary Education				X		
English	X	X		X		
Environmental Health		X				Associate
History	X			X		
Law Enforcement						Associate
Machine Technology						Associate
Management Technology		X				
Marketing & Management			X			
Mathematics		X		X		
Medical Technology		X				
Music	X			X		
Nursing						Associate
Office Administration						Associate
Physical Education				X		
Physics		X		X		
Political Science	X					
Pre-Agriculture	Little Mills					Associate
Pre-Dentistry						Associate
Pre-Engineering						Associate
Pre-lournalism						Associate
Pre-Medicine						Associate
Pre-Optometry						Associate
Pre-Pharmacy						Associate
Psychology	X	X				Associate
Psychology-Special Education	^	^		X		
Radiologic Technology		X		^		
Secretarial Science		^				Certificate
Social Science				X		Certificate
Sociology	x			^		
Spanish	X			x		
Speech & Theatre	X			X		
speech & meatre	^		(1 .	A		

^{*}This program designed for the student who finds that the present degree programs (Majors) at the College will not enable him/her educational objectives. The program may or may not prepare a student for a particular occupation or entry into a professional school. Students should see the Registrar for full particulars on the program.

15. Baccalaureate Degrees

- A. Residence—The student must have earned thirty out of the final thirty-six semester hours in residence at Missouri Southern State College. (This regulation does not apply to three-one affiliation programs.)
- **B.** Credit Hours—At least one hundred twenty-four semester hours of college credit applicable to a baccalaureate degree are required to qualify for graduation.
- C. Grade Point Average—A 2.0 cumulative grade point average on all credit hours attempted is required. The courses making up the major field of study must also carry a 2.0 or above. See the Department of Education for the special requirements in the Teacher Education Program.
- **D.** Upper-Division Hours—A minimum of forty semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs.
- **E. Time of Graduation**—A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.
- **F. Major Field**—A minimum of 12 upper division credit hours must be earned in the major field. The grade point average for courses making up the major must be 2.0 or above. A minimum of 15 semester hours must be taken at Missouri Southern State College.
- **G. Placement Services**—Each degree candidate must register in the Placement Office.

- H. Degree Candidacy Application—Each student must make application for degree candidacy when pre-registering for his final semester in the school year in which he is to receive his degree. The application form is available in the office of the Registrar.
- **I.** Educational Methods Course—These courses, including student teaching, are applicable only to the Bachelor of Science in Education degree.
- **J. Correspondence and Extension Credit**—A maximum of twelve semester hours of correspondence and extension credit may be considered for admission to the degree.
- K. State Legislation Requirement—Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, perferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the general education curriculum requirements in Area 4 meet the requirements of Missouri law. Out of state students who do not take Area 4 at Missouri Southern State College must pass a special examination on the new Missouri Constitution.

L. General Education Requirements-Missouri Southern State College has a program of General Education that contributes toward the development of the whole person, as an individual and as a member of society.

To accomplish this goal, the student pursues a carefully planned and correlated program of courses. The courses selected to fulfill the General

Education requirements:

(1) improve skills of communication and mathematical proficiency;

(2) give an understanding of leading intellectual ideas of western civilization:

(3) create an appreciation of our cultural and political heritage;

(4) emphasize responsibility as

a citizen;

(5) aid in the development of creative and independent thought and expression;

(6) provide knowledge and understanding of the

physical universe;

(7) develop awareness of the importance of health and physical fitness; and

(8) afford experiences conducive to the development of strong character and personality.

BACCALAUREATE DEGREE

Area 1. Basic Requirements A. English Composition (Eng. 101 and 102) (or achievement of the required competency level which can be done in 3 hours (Eng. 111) or as many as 11 hours (Eng. 100, 101, 102)		Credit Hours Required 6
 B. Speech (Select one) 100 Speech Techniques 101 Argumentation and Debate 210 Discussion Techniques 302 Business & Professional 	(3) (3) (3)	3
Speech C. Mathematics (110 or above) D. Physical Education: P.E. Activity Personal Health	(2) (2)	3 4
Total for Area 1. Area 2. Humanities and Fine Arts Literature (at any level for which the student is qualified)		16 hours Credit Hours Required
Select two courses (not in same area of study.) Art Theatre *Foreign Language Literature Music Philosophy	(3) (3) (6-10) (3) (3) (3)	6

^{*}May be counted as one course only if the student has more than one course in the same Foreign Language.

Total for Area 2.

9 hours

The Bachelor of Arts degree students, who must take foreign language as a degree requirement, may apply three hours of foreign language taken beyond the degree requirement toward the humanities and fine arts general education requirement.

Area 3. Natural Sciences Biology Physical Science Total for Area 3.	Credit Hours Required 4 5 9 hours
Area 4. Behavioral and Social Sciences History 110 or 120 (U. S. History) PSc 120 Gov't: National, State, Local	Credit Hours Required 3 3
Select one: Psychology Sociology Economics History Political Science Geography Total for Area 4.	(3) (3) (3) (3) (3) (3) (3) (3)
Area 5. Elective A lower or upper division course, out the student's major area, for which he qualified. Total for Area 5.	
	3 110413
Total General Education Requirement	MADERITARY STORES SECURISE STORES
 16. Associate of Arts Degree A. Credit Hours—A minimum sixty-two semester hours must be completed. B. Residence—The last fifteen semester hours must be completed in residence at Missouri Southern State College. 	MADERITARY STORES SECURISE STORES

2	2.	Select one: Math 110, Introduction to College Math I Math 130 College Algebra	(3) (3)	3
		Total for Area 1		12 hours
1	1.	Students who qualify for Eng. 111 meet the with this course.	ne composition	requirements
2	2.	Higher level mathematics courses also satisfy thi	is requirement.	
re	ea	2. Behavioral & Social Sciences		Credit Hours Required
		History 110 or 120, History of United States		3
		Select two: Political Science 120, Government: National,		6
		State, Local	(3)	
		History 200, Western Civilization History 202, Europe 1815 to Present	(3)	
		Geography 211, Regions and Nations	(3)	
		Geography 222, Economic Geography	(3)	
		Psychology 100, General Psychology	(3)	
		Sociology 110, Introduction to Sociology Economics 202, Principles of Economics	(3)	
		Total for Area 2		9 hours
re	2	3 Humanities and Fine Arts		Credit Hours
re		 Humanities and Fine Arts Any 3 hours of literature courses fo qualified. 	or which the	Required
re		Any 3 hours of literature courses fo qualified.	or which the	Required student is 3
re		Any 3 hours of literature courses fo qualified. Select one:	espirely)	Required student is
re		Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art	(3) (3)	Required student is 3
re		Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation	(3) (3) (3)	Required student is 3
re		Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art	(3)	Required student is 3
re		Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation	(3) (3) (3)	Required student is 3
re		Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy	(3) (3) (3)	Required student is 3
	a	Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy	(3) (3) (3)	Required student is 3
	a	Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy Total for Area 3 4. Natural Sciences	(3) (3) (3)	Required student is 3 3 6 hours Credit Hours Required
re	a	Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy Total for Area 3 4. Natural Sciences Any biological or physical science Total for Area 4	(3) (3) (3)	Required student is 3 3 3 6 hours Credit Hours Required 4
re	a	Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy Total for Area 3 4. Natural Sciences Any biological or physical science	(3) (3) (3)	Required student is 3 3 3 6 hours Credit Hours Required 4 4 hours
re	a	Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy Total for Area 3 4. Natural Sciences Any biological or physical science Total for Area 4	(3) (3) (3)	Required student is 3 3 3 6 hours Credit Hours Required 4 4 hours Credit Hours
re	a	Any 3 hours of literature courses fo qualified. Select one: Music 110, Music Appreciation Art 110, Introduction to Art Theatre 110, Theatre Appreciation Philosophy 201, Introduction to Philosophy Total for Area 3 4. Natural Sciences Any biological or physical science Total for Area 4 5. Health and Physical Education Select one: HPER 101-102, Introduction to Physical Activity	(3) (3) (3) (3)	Required student is 3 3 6 hours Credit Hours Required 4 4 hours Credit Hours Required

Total general education credit required—34.

17. Associate of Science Degree

A. Credit Hours—A minimum of sixty-two semester hours must be completed.

B. Residence—The last fifteen semester hours must be completed in residence at Missouri Southern State College.

C. Grade Point Average—The minimum cumulative and major field grade point average must be 2.0. D. Major Field—The student must meet the course requirements in the particular program of study he selects as approved by his adviser.

E. General Education Requirements—The degree requires completion of the general education courses as well as those outlined in his major field of study. The general education required courses are:

Area 1. Basic Skills	Credit Hours Required
1. English 101, English Composition	3
Select one: 2. Math 30, Programmed Course in Intermediate	3
Algebra or higher (3)	
Math 110, Intro. to College Math (3)	
3. Speech 100, Speech Techniques (3)	3
Total for Area 1	9 hours

- 1. Students who qualify may take Eng. 111 to meet this requirement.
- 2. Higher level mathematics courses also satisfy this requirement.

Area 2. Social Sciences		Credit Hours Required
Select one: History 110 or 120, History of the U. S. Political Science 120, Government: National, State, Local	(3)	3
Select one: Sociology 110, Introduction to Sociology Sociology 152, Introduction to Anthropology Psychology 100, General Psychology	(3) (3) (3)	3
Total for Area 2		6 hours
Area 3. Humanities and Fine Arts		Credit Hours Required
Select one: Theatre 110, Theatre Appreciation English 180, World Masterpieces English 271, English Literature Philosophy 201, Introduction to Philosophy Music 110, Music Appreciation Art 110, Introduction to Art	(3) (3) (3) (3) (3) (3)	3
Total for Area 3		3 hours

Area 4. Natural Sciences		Credit Hours Required
Select one:		4
Biology 100, General Biology Physics 100, Fundamentals of Physical Science Chemistry 100, Introductory Chemistry	(4) (5) (5)	
Total for Area 4		4 hours
Area 5. Health and Physical Education		Credit Hours Required
Select one:		2
1. HPER 101-102, Introduction to Physical Activity HPER 160, Personal Health	(2)	
	(2)	
Total for Area 5	(2)	2 hours

1. Physically restricted students may take HPER 100.

Total general education credits required—24.

18. Physical Education Requirements.

All students are required to satisfactorily complete 4 hours of physical education before they are permitted to graduate.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement.

A. Students who transfer from colleges where physical education is not taught will be exempt from the requirement as follows: (1) Students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) Students transferring 15 to 29 semester hours will be exempt from 2 hours of physical education; (3) Students transferring 30 hours or more will be exempt.

B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

19. State Legislation Requirement.

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the general education curriculum requirements in Area 2 meet the requirements of Missouri law. Out of

state students who do not take Area 2 at Missouri Southern State College must pass a special examination on the new Missouri Constitution.

School Laws of Missouri 1974, requires that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless he or she has satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking the course, Psy. 302.

20. All Work Must Be Completed. Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, his degree will be granted at the next scheduled commencement. He may receive a certified statement of completion of graduation requirements at the Office of the Registrar. No student will be permitted to participate in the commencement exercise unless his name

appears on the commencement program.

21. Presence at Commencement Exercises.

A student ready for graduation must be present at commencement in order to receive his degree. A candidate may graduate **in absentia** with the permission of the Vice President for Academic Affairs.

22. Degree Candidacy Applica-

Each student must make application for degree candidacy when preregistering for his final semester in the school year in which he is to receive his degree. The application form is available in the Office of the Registrar.

23. Payment of Graduation Fees. The graduation fee is due not later than the beginning of the semester in which the graduation takes place.

OTHER GENERAL REGULATIONS

24. Classification of Students.

Freshman: 0-29 Hours Sophomore: 30-59 Hours Junior: 60-89 Hours Senior: 90 and above.

Special: Non-degree students, usually 21 years of age or over, admitted on the basis of maturity and ability, but who fail to meet regularstanding requirements or who plan to study for personal improvement only. These may qualify for regular standing by removing entrance deficiencies and by earning a minimum of C (2.0) average. Normally, there is a 32-hour limit. Credits earned as a special student may apply toward a degree when regular standing is attained and if the credit earned is regularly applicable toward a degree. Students who have attempted a degree program and who have failed to maintain normal progress toward graduation, may at the discretion of the proper college authorities, be directed into nondegree, occupational preparation programs as special students.

Post Graduate: Persons having completed a baccalaureate degree but taking courses for purpose of teacher certification, job preparation, an additional degree, or personal profit.

Transient: Students in good standing at other colleges and universities wishing to enroll at Missouri Southern State College for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$5.00 application fee, and a statement of good standing from the Vice President for Academic Affairs or Registrar of the student's home college or university.

Full - Time: A student enrolled for 12 or more semester hours.

Part - Time: A student enrolled in 11 or less semester hours.

25. Dual Credit.

A student who desires to earn credit concurrently at another institution or through correspondence, extension, advanced standing examinations, or USAFI examinations while enrolled in residence at Missouri Southern State College must secure advanced approval from the Vice President for Academic Affairs. Exception: Armed Forces Personnel will be granted sixty days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

26. Second Baccalaureate Degree. A student may receive a second Baccalaureate degree when he has completed the first degree and all the requirements of the second degree.

(Exception: Students may not count the professional education courses of the first degree as electives toward the second degree). The "Residency" requirement does apply.

27. Transcript Below "C" Average.

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress, paragraph 41, will be placed on Academic Probation. Missouri Southern State College accepts all grades from any equally accredited institution including both "D's" and "F's."

28. Grade Reports.

Grade reports are normally available within one week after the semester closes.

29. Mid-Semester Grades.

All students earning a "D" or an "F" in any course will receive a report following the eighth week of each semester.

30. Maximum Credit Hour Load. All hours enrolled in above 18 shall

be regarded as excessive and shall require a written petition signed by the student's division dean. Exception: Students in Music may carry 20 hours without petitioning for excessive hours.

31. Late Registration.

No student will be permitted to enroll in a regular semester after the second week of classes and in a summer session after one week of classes. Any student enrolling after classes begin will pay a late enrollment fee.

32. Withdrawing from School.

A student who wishes to withdraw will initiate his withdrawal in the Office of Student Personnel (Hearnes Hall 120). A student who withdraws prior to the end of the twelfth week of a regular semester and the end of the sixth week of a summer session will receive a "W" on his permanent record. If the student withdraws after these deadlines, his courses will be listed on his permanent record with a grade of "F." Students who leave school without officially withdrawing shall receive grades of "F" in all courses.

33. Dropping Courses.

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in paragraph 32 apply.

34. Adding Courses.

A student may initiate the adding of a course in the Registrar's Office. A student will be permitted to add a course only upon the approval of his advisor. A fee of \$2.00 will be charged each time a student changes his program not at the request of the college. No course may be added after the second week of classes in a regular semester and after the first week of classes in the summer session.

35. Class Attendance

The primary objective of student and professor is the student's attainment of course goals. It is recognized that normally those students who achieve well are regular in class attendance. The professor, when giving a final semester grade, bases his evaluation on how well the student has achieved the course goals.

The student who misses a class does so at his own risk. He must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require whatever evidence he needs to support the reason for absence. If a student is absent two class meetings more than the credit hours of the course, the student may be dropped from the course. However, if that student is maintaining a grade of "C" or better, he cannot be dropped from the course without his permission.

Because the attendance record is significant to the total record and useful in guidance and counseling, the professor keeps a record of individual class attendance. When he believes the absences are excessive he will report the fact to the Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's office along with the final grade at the end of the semester.

The student should be aware that absenting himself from the class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

36. Grading System.

Grade			C	ira	ad	le	P	o	in	ts	
A—Superior										4	

B—Above Average 3
C—Average 2
D-Minimum Passing 1
F—Failing 0
W-Withdrawal 0
I—Incomplete 0
Au-Audit (registration without
credit)
Cr-Credit (course passed with
no specific grade)

An incomplete must be made up by the end of the next semester or it will automatically be converted into an F. The student is to arrange with his professor the work essential to change the incomplete into a regular grade. Both credit and grade points are suspended until the incomplete (I) is converted to either a passing grade or an F.

A grade point average (GPA) at the end of any semester is the total number of grade points earned divided by the total number of hours attempted.

37. Official Transcripts.

An official transcript of the student's academic record bears the registrar's signature and the college seal. Missouri Southern State College assumes no responsibility for the accuracy of a transcript after it leaves the registrar's office.

Up to two weeks must be allowed after the close of a semester for the insuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills to Missouri Southern State College are paid or are current according to agreement with the business office.

38. Auditors.

With the consent of the dean of the division and the instructor concerned, a student may be admitted to a course as an auditor.

Auditors must be registered and pay fees as a regular or special student. They receive no college credit.

Courses taken for credit cannot be changed to an audit during the semester. Neither can a course taken for audit be changed to credit during the semester.

39. Good Standing and Eligibility.

Students enrolled at Missouri Southern State College are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Those students competing in intercollegiate athletics or in organizations representing the college off campus are ineligible to participate in these programs when they fall below the norms set for minimum standards of progress.

40. Academic Bankruptcy.

A student may petition the Academic Policies Committee that one semester of his academic work be disregarded in computing his academic record. To be eligible for petitioning a student must be currently enrolled, in good standing, and he must document the unusual conditions which justify his petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

41. Standards of Progress Toward Graduation.

A student's cumulative grade point average (GPA) is used to evaluate his progress. If the grade point average falls below the minimum standards of progress, his work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

For Associate I	Degree Candidates
Hours Attempted	Grade Point Avg.
1-17 semester hour	rs 1.5
18-33 semester hour	rs 1.6
34-43 semester hour	rs 1.75
44-55 semester hour	rs 1.9
56 and above	2.0

For Baccalaureate Degree Candidates

1-17 semester hours	1.5
18-33 semester hours	1.6
34-46 semester hours	1.75
47-62 semester hours	1.8
63-77 semester hours	1.85
78-93 semester hours	1.9
94-107 semester hours	1.95
108 and above	2.0

42. Academic Probation, Suspension, and Reinstatement.

Each student should consider a grade point average of less than 2.0 as a warning.

Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the college.

A student receiving academic suspension must stay out of Missouri Southern State College one semester. Toward the close of the semester he may apply to the Director of Admissions for reinstatement. This petition must be completed two weeks

before the first day of registration for the next semester. The Director of Admissions, within the framework of College policy, will notify the student whether and on what conditions he can be readmitted. Readmission will be considered only in cases where the student can present positive academic evidence that indicates a high probability of future academic success. The grade points needed to reach minimum progress toward graduation must be within the student's capability.

43. Repetition of Courses.

A course in which a student has made a grade of D or F may be repeated only once. The grade and grade points in the first attempt will be cancelled and the second grade will be used in computing grade point averages.

44. Honor Roll.

Dean's Honor Roll—To be placed on the Dean's Honor Roll, the student must be an undergraduate in regular standing and earn a minimum of 3.5 out of a possible 4.0 points on twelve or more semester hours during the fall and/or spring semesters.

45. Graduation Honors.

In recognition of superior scholarship, the college awards honors to associate degree and baccalaureate degree graduates as follows:

Associate Degree. The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive First Honors is 3.75; Second Honors, 3.65; and Third Honors, 3.50.

Baccalaureate Degree. Cum Laude is awarded those students who have a cumulative grade point average of 3.3.

Magna Cum Laude is awarded those students who have a cumulative grade point average of 3.7.

Summa Cum Laude is awarded those students who have a cumulative grade point average of 3.85.

Eligibility for any one of the three honors also requires the candidate to study all his junior and senior years at Missouri Southern State College and earn a minimum 60 semester hours of credit.

46. Course Numbers and Levels.

Course Numbers:

0-99 Not applicable toward baccalaureate degree.
100-199 Primarily for freshmen.

200-299 Primarily for sophomores.
300-399 Primarily for juniors.

300-399 Primarily for juniors. 400-499 Primarily for seniors.

Normally courses numbered 100-299 are considered junior or lower division level courses, and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester prerequisite.

Freshman are not permitted to take any course above the two hundred level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered by this college are listed beginning on page 69 of this catalog. Immediately following each course title is a letter abbreviation of the semester in which this course is to be offered. Students and faculty should use this as a guide in considering future enrollment. HOW-

EVER, THIS SHOULD NOT BE IN-TERPRETED AS A CONTRACT. SOUTHERN STATE MISSOURI RESERVES THE COLLEGE RIGHT TO DEVIATE FROM THIS WHEN COMMITMENT **ENROLL-**MENT, OR OTHER FACTORS DIC-TATE.

47. Course Numbering System.

Missouri Southern State College has adopted a course numbering consistent with a national system and designed for computer processing. In this system there are listed large areas of knowledge and training, and within each area there are subdivisions. Missouri Southern is using a seven-digit number, such as 0502-101. The number 05 identifies the large area of Business Management. The number 02 identifies a subdivision of accounting. The first four numbers, then, are the new standardized national system of numbering, and the last three numbers are Missouri Southern's system of numbering her individual courses within each department.

Below are two lists: First, the list of the large divisions available at Missouri Southern. Second, the list of the departments with their symbols and numbers.

Large Academic Divisions of Knowledge and Training (Baccalaureate Degree Level)

- 04 Biological Sciences
- 05 Business and Management
- 06 Communications
- 08 Education
- 10 Fine and Applied Arts
- 11 Foreign Languages
- 12 Health Professions
- 15 Letters
- 17 Mathematics
- 19 Physical Sciences
- 20 Psychology
- 22 Social Sciences

Technological and Occupational Curriculums (Associate Degree Level)

- 50 Business and Commerce Technologies.
- 51 Data Processing Technologies
- 52 Health Services and Paramedical **Technologies**
- 53 Mechanical and Engineering **Technologies**
- 54 Natural Science Technologies
- 55 Public Service Related Technologies

DEPARTMENTS, THEIR SYMBOLS, AND THEIR NUMBERS AT MSSC

Accounting (Acct.) 0502 Art (Art) 1002, 03

Automotive Technology (Auto) 5306 Aviation (AV) 5302

Biology (Bio) 0401 to 0499

Business, General (GB) 0501, 03, 06,

Chemistry (Chem.) 1905, 06, 07, 08, 99 Computer Science (Comp.) 5101, 02, 03.04

Dental Assistant Technology (DAT) 5202

Dental Hygiene Technology (DHT) 5203

Drafting and Design (DD) 5303, 04 Economics (Econ.) 0517

Education (Educ.) 0802, 03, 10, 11, 16, 17, 21, 27, 29, 30, 33, 34, 99 English (Eng.) 1501, 02, 03, 99

German (Ger.) 1103 Spanish (Span.) 1105 Geography (Geog.) 2206 Geology (Geol.) 1914 Health Facilities Administration (HA) 5218 Environmental Health (EHT)

Technology (4-Yr.) 1299

(2-Yr.) 5408 History (Hist.) 2205

Foreign Language:

French (Fren.) 1102

Journalism (Jour.) 0602 Law Enforcement (LE) 5505

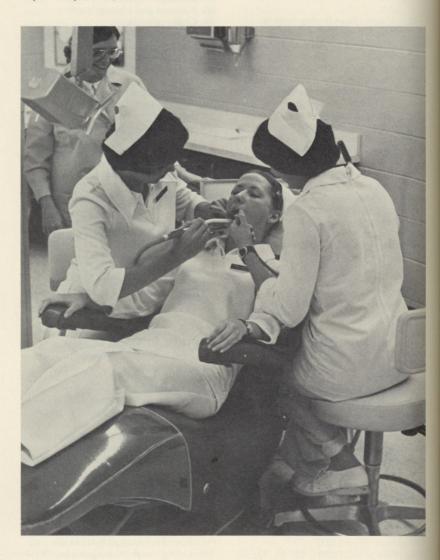
Machine Technology (MT) 5315

Marketing and Management (MM)

Mathematics (Math) 1701, 02, 03, 99

DEPARTMENTS, SYMBOLS & NUMBERS

Military Science (MS) 1801 Music (Mus.) 1004, 06 Nursing (Nur.) 5208 Office Administration (OA) 0514 Philosophy (Phil.) 1509 Physical Education, Health, Recreation (HPER) 0835, 36, 37 Physics (Phys.) 1901, 02 Political Science (PSc) 2207 Psychology (Psy.) 2001, 02, 05, 06, 09, 10, 11, 22, 99 Radiologic Technology (RT) 5207 Sociology (Soc.) 2208 Speech (Spch.) 1506 Theatre (Th.) 1007



THE CURRICULUM

DIVISIONAL ORGANIZATION AND OBJECTIVES

The college is organized into four divisions, each with a dean as its executive. The divisions are subdivided into departments. The divisions and departments are under the administrative supervision of the Vice President for Academic Affairs.

The divisional objectives and programs are as follows:

I. Division of Business Administration (Departments of accounting, economics and finance, general business, marketing

and management, and office administration):

(1) Preparing individuals to enter the business community and perform effectively and responsibly in the diversified areas of industry, commerce and government; (2) Preparing individuals for positions of responsibility and leadership; (3) Preparing individuals to teach business subjects on the secondary level; (4) Provide a background sufficient to successfully pursue advanced degrees in the diversified areas of business.

It is the primary purpose of the Division of Business Administration to continuously develop and improve the caliber of instruction, programs, and courses which will achieve these objectives and, thereby, fulfill the educational needs and goals of

the individuals previously mentioned.

The Division of Business Administration offers three baccalaureate degree programs:

1. Bachelor of Science In Business Administration with majors

(a) Accounting

(b) Economics & Finance

(c) General Business

(d) Marketing & Management

2. Bachelor of Science with a major in Management-Technology.

3. Bachelor of Science In Education with a major in Business Education (two plans).

In addition, several Associate Degree and short-term business programs are offered. These programs are described under Pre-Professional and Technical Curricula.

II. Division of Education and Psychology (Departments of elementary education, secondary education, health, physical education and recreation, and psychology):

THE CURRICULUM

The programs of this division are designed to reflect the

following general aims:

(1) To prepare persons who demonstrate by their behavior the professional, social, emotional, and intellectual maturity necessary to perform effectively as elementary and secondary school teachers; (2) To prepare persons who display a meaningful philosophy of living and a dedication to service; (3) To prepare persons who indicate in their daily lives a concern for and knowledge of good physical and mental health; (4) To teach creative and beneficial leisure-time activities that will serve the student throughout life; (5) To prepare persons with a degree of understanding in the area of psychology which is necessary to perform well as a graduate student or to be of service to society in a service vocation.

The division provides specific course work leading to the degrees of Bachelor of Science in Education, Bachelor of Arts with a major in Psychology, Bachelor of Science with a major in Psychology, and a Bachelor of Science in Education with a major

in Special Education-Psychology.

More specifically the Department of Education is responsible for the teaching and coordinating of the professional education sequence in the Bachelor of Science in Education degree. It also administers the major programs in elementary education and special education. The department of Health, Physical Education and Recreation serves the basic requirements for all college students, provides a major in professional physical education, and provides minors in driver education instruction and athletic coaching. The Department also supervises the women's and men's intramural sports programs.

III. Division of Arts and Sciences:

Objectives of Departments of fine arts, language and literature

These departments comprise those areas of learning in which the student is made aware of some of mankind's greatest thought and noblest art. Through the study of art, journalism, language, literature, music, philosophy, speech, and theatre, the student enlarges his capacity to express himself and at the same time develops his ability to comprehend and appreciate the creative efforts of others.

These departments are concerned with creative self expression, although distinct in that each is a specific discipline or area of study.

A. Viewed in relation to the total college curriculum, the functions of the departments are twofold:

1. General Education — Certain courses offered in every area of Humanities and Fine Arts are especially designed to make available to each student skills and understanding which greatly add to his personal development, regardless of his specialization. (a) Through courses in English and speech he will increase his ability to read, write, and speak his own language and deepen his understanding of its literature. (b) By studying foreign languages, he will learn to communicate with people of other nations and to appreciate the intellectual contributions of cultures other than his own. (c) Through participation in theatre, he will develop poise and power of oral expression. (d) In a guided study of the masterpieces of music and art, he will learn to enjoy and appreciate world treasures. (e) In philosophy, he will become familiar with the problems of knowledge, the natural world, and society, and with the guest for the good life.

2. Major or Area of Concentration — To achieve a high level of competency in his special interests, a student elects an area of concentration. (a) Programs in art, English, foreign languages, speech, theatre, and music form major areas for candidates for the Bachelor of Science in Education degree. (b) A lesser concentration in several of these areas is required for a Bachelor of Science in Education degree with a major in elementary education. (c) Students not planning to teach but desiring competency in an area may elect to receive a Bachelor of Arts degree for personal enrichment or as preparation for graduate study.

- B. In addition to curricular functions, the departments exert a strong influence upon the cultural life of the college and community.
- 1. The musical and dramatic performing organizations offer opportunities for participation to all qualified students, thus serving as a valuable outlet for aesthetic self-expression.
- 2. The regular publication of the college newspaper, The Chart, not only provides practical experience for students interested in journalism, but also serves the college community and alumni with reports of college activities.
- 3. The creative arts publication written and edited by MSSC students, under the sponsorship of the Language and Literature and Fine Arts Departments, serves the dual purpose of providing an outlet for artistic and literary expression and practical experience in the editorial functions associated with publishing. Through this medium, young writers and artists may not only gain experience in the development of their talents, but also enrich the cultural resources of the college community. This is an opportunity that they and their editors have for speaking to

THE CURRICULUM

and for the other students, and, at the same time, for interesting, entertaining, and influencing all at MSSC.

4. Displays of art works by students and faculty in the Art Gallery and in the exhibits sponsored by Spiva Art Center,

housed in the Gallery, stimulate the artistic community.

5. The services of members of the faculty of all departments to community organizations — professional, cultural and civic — aid in acquainting the public with the programs of the college.

Objectives of departments of biology, chemistry, geology, mathematics, and physics

To support the purposes and objectives of the college by coordinating the various departments of science and mathematics in order to aid the student to: (a) become more knowledgeable about the biological and physical aspects of the earth and universe: (b) understand and use the scientific method; (c) gain a comprehensive understanding of subjects for teaching (if teaching is the goal); have a broad base of learning and understanding, regardless of the major field of study selected, through general education courses. The division also meets needs of students preparing for engineering, dentistry, medical technology, medicine and nursing.

Objectives of departments of geography, history, political science, and sociology

The purposes are to provide the student with the skill, attitudes, and understanding necessary to give life direction and meaning; to encourage the student to think and to evaluate the broad issues of life; and to stimulate his acquiring new interests that he may pursue for the sheer pleasure of learning.

The division has a special concern in the preparation of social science teachers for the schools of Missouri and the undergraduate education of students who are planning careers in government and community service.

The objectives of the division are:

1. To prepare students for certification as social science teachers in the elementary and secondary schools.

2. To provide the undergraduate education needed for students desiring to continue graduate work in history, political sciences or sociology.

3. To provide a program of extracurricular activities that aid in introducing the student to his future role of

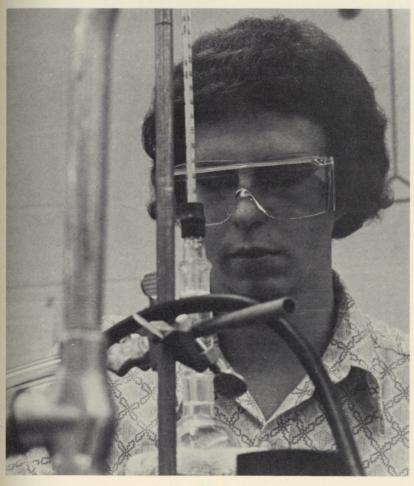
service to community and nation.

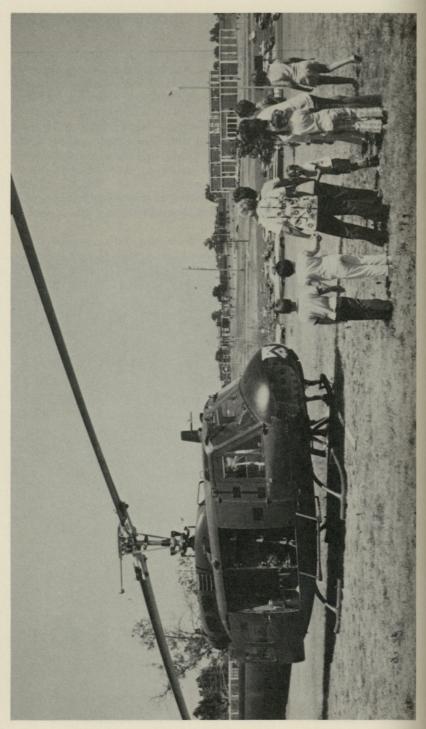
DIVISIONAL OBJECTIVES

IV. Division of Technology (departments of automotive technology, aviation, computer science, cosmetology, dental hygiene, dental assisting, drafting and design, law enforcement, health administration, machine technology, military science, nursing,

and radiologic technology):

(1) To provide an opportunity for post-high school education for students seeking skills preparing them for employment. (2) To give both specialized instruction and general education in sufficient balance to prepare for living as well as working in society. Students enrolling in the specialized courses of this division should know that some of them may not be applicable toward a baccalaureate degree if he should later decide to seek it.





COURSES OF INSTRUCTION

ACCOUNTING

Division of Business Administration Estes, Finke, Goode, Grim

Look under General Business for requirements essential to earning a Bachelor of Science in Business Administration degree with the Accounting major. In the same place find the requirements for the Bachelor of Science in Education degree with a Business Education major.

The requirements for the Technology Programs leading to Certificates of

Achievement and Associate of Science degrees are found on page 158.

0502-101—Elementary Accounting (F,S)

3 hrs. cr.

Fundamental principles of accounting as applied to modern business practice. Analysis of balance sheets and income statements. Prerequisite or corequisite GB 101.

0502-102—Elementary Accounting (F,S)

3 hrs. cr.

Continues Accounting 101 with emphasis on corporation accounts. Prerequisite Acct. 101.

0502-212—Intermediate Accounting I (F,S)

3 hrs. cr.

A continuation of corporation accounting including a detailed study of the fundamental process with emphasis on current assets, current liabilities, and non-current investments. Prerequisite: Acct. 102.

0502-301—Intermediate Accounting II (S)

3 hrs. cr.

A continuation of corporation accounting, emphasizing stockholders equity, long-term liabilities, various financial statement analysis. Prerequisite: Acct. 212.

0502-302—Advanced Accounting (S)

3 hrs. cr.

Application of accounting principles to partnerships, installment and consignment sales, receiver's accounts, estates and trusts, and consolidating statements. Prerequisite: Acct. 301.

0502-310—Cost Accounting (F,S)

3 hrs. cr.

Study of accounting control with management emphasis as applied to industrial enterprise. Special emphasis on product costs and cost systems. Prerequisite: Acct. 102.

0502-401—Tax Accounting (F,S)

3 hrs. cr.

Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice is given in preparing federal income tax returns. Prerequisite: Acct. 102 or permission. (See General Business 401.)

0502-411—Auditing (F)

3 hrs. cr

The procedures involved in preparing an audit of the various accounts of a business enterprise. Prerequisite: Acct. 301.

0502-491—Internship in Public Accounting (F)

3 hrs. cr.

Selected senior accounting students serve an internship of approximately six weeks as junior accountants on the staff of practicing certified public accountants. The program is supervised by the faculty. An oral and written report is required. Prerequisites: Acct. 301, 401, 411 and/or consent of the internship committee.

COURSES OF INSTRUCTION

0502-498—Seminar in Accounting (demand)

1-3 hrs. cr.

A seminar for upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

0502-499—Independent Study in Accounting (demand)

1-3 hrs. cr.

Individually directed readings, research, and discussions in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission.

ART

Division of Arts and Sciences

Department of Fine Arts

Cole, Dishman, Fowler, Hess

A major for the Bachelor of Arts degree includes 32 required credit hours plus 18 hours of art electives approved by student's advisor. Required art courses are: Art 100, Art 120, Art 130, Art 132, Art 211, Art 230, Art 232, Art 301-302, Art 312, and Art 490.

A major for the Bachelor of Science in Education degree with one teaching field consists of 32 credit hours plus 15 hours of art electives approved by the student's advisor. Required art courses are: Art 100, Art 120, Art 130, Art 211, Art 220, Art 132, or 230, Art 232, Art 301-302, Art 312 and Art 490. A student wishing to certify to teach art as one of two teaching fields must complete 36 hours. See page 93 for teacher education requirements.

1002-100—Art Composition (F,S)

3 hrs. cr.

Introductory course using fundamental techniques and media, including art practice and theory.

1003-110—Introduction to Art (F,S)

3 hrs. cr.

A general survey course designed to increase appreciation of visual art.

1002-120—Ceramics (F,S)

3 hrs c

Methods and techniques of hand building are studied with application to modeling and throwing clay forms. Prerequisite: Art 100 or 110.

1002-130—Drawing Techniques (F)

3 hrs. cr.

Free-hand drawing problems using various drawing tools and techniques used by master artists. Prerequisite: Art 100.

1002-132—Introduction to Design (S)

3 hrs. cr.

Foundation course using problems involving art principles and elements.

1002-200—Arts and Crafts (S,Odd)

3 hrs c

General crafts course involving leather tooling, block printing, pottery, weaving and some graphics. May be taken by non-art majors.

1002-205—Beginning Jewelry and Silversmithing (F)

3 hrs. cr.

A general introduction to jewelry casting, soldering, and finishing metals. Prerequisites: Art 100 and Art 132.

1002-211—Sculpture Techniques (F)

3 hrs. cr.

Study of various sculptural problems and techniques in stone, clay, wood, and mixed media. Prerequisite: Art 100, 121.

0831-220—Art Education (F,S)

3 hrs. cr.

Course designed to develop understanding of the problems in teaching art with emphasis on methods of teaching various art problems. Required for all Elementary Education Majors.

1002-230—Basic Form (F)

3 hrs. cr.

Study of relationships of parts to form. Problems include two and three dimensional. Prerequisite: Art 100.

1002-232—Painting Techniques (S)

3 hrs. cr.

Procedures, techniques, and fundamentals of painting, media—oil, water-color, and mixed. Prerequisite: Art 100 and 130.

1002-300—Drawing (S)

3 hrs. cr.

Self exploration of various drawing elements including artistic anatomy, composition, structure, and aesthetics. Prerequisite: Art 100, 130, or approval of the instructor.

1003-301—Art History (F)

3 hrs. ci

Survey of the development of man's artistic endeavors from Stone Age to the Early Renaissance.

1003-302—Art History (S)

3 hrs. cr.

Continuation of 301 from the Early Renaissance in Italy to the present art styles.

1002-310—Watercolor (S)

3 hrs. cr

Technical and aesthetic understanding of watercolor with various subject matters encouraged. Prerequisite: Art 130.

1002-312—Beginning Printmaking (F)

3 hrs. cr.

Initial laboratory exercises in various Intaglio processes; etching, engraving, drypoint, mezzotint, and other mixed media. Prerequisite: 1002-130.

1002-321—Sculpture (S,Odd)

3 hrs. cr.

Various media (plastic, metal, clay, mixed) are chosen by the student for investigation.

1002-322—Sculpture (demand)

3 hrs. cr.

Continuation of 321. Prerequisite: Art 211 and 312.

1002-330—Advanced Jewelry and Silversmithing (S)

3 hrs. cr.

Advanced methods and techniques of complex forms will be explored for Jewelry Design. Prerequisite: Art 205.

1002-401—Painting (F,Even)

3 hrs. cr.

The student selects an individual problem for investigation. Techniques, history, and painting methods of acrylic or oil paintings are surveyed for understanding. Prerequisite: Art 232.

1002-407—Advanced Ceramics (S)

hrs. cr.

Advanced methods, techniques, and procedures of pottery making and design in clay. Prerequisite: Art 120.

1002-412—Commercial Art (F, Even)

3 hrs. cr.

Lettering, layout, and design techniques. Survey of various reproductive processes. Prerequisite: Art 120, 230, and 232.

1002-421—Head Study (demand)

3 hrs. cr.

Fundamental methods in portraiture. Various drawings and painting media for structure of the head. Atistic head anatomy used for each head study. Prerequisite: Art 130, and 232 or 300.

1002-430—Advanced Printmaking (S)

3 hrs. cr.

Advanced Intaglio techniques. Studio methods of color registration, burning, engraving, drypoint, mezzo-tint, etching, and other related printing processes are offered. Prerequisite: Art 312.

1002-498—Seminar in Art (demand)

3 hrs. cr.

Student art problems investigated with group participation. Class meets twice weekly with Department Head to discuss student findings. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 20 credit hours in art.

1002-490—Senior Studio (F,S)

2 hrs. cr.

Special study in any art media or technique chosen by the student. Requirements: (1) Art survey paper, (2) Senior art exhibit, (3) Oral presentation. Prerequisite: Senior standing.

ASTRONOMY

Division of Arts and Sciences

(See Physics)

1911-300—Astronomy (demand)

3 hrs. cr.

Solar system, gravitation, Kepler's laws, celestial coordinate systems, telescopes and optical systems, stellar evolution, nebula, g actic structure, and cosmology. Two hours lecture and one two-hour lab a week. Prerequisites: Physics 100 or equivalent and one year of high school algebra.

AUTOMOTIVE TECHNOLOGY

Division of Technology

Adams

The major emphasis in Automotive Technology is specialization in automotive service and business management. The training also provides the background for entry into a general automotive repair or specialized field where a technical knowledge of machines, tools and testing equipment is required.

The curriculum is college oriented. Students are regular members of the campus body and are expected and encouraged to participate in extracurricular activities.

The Associate of Science degree in Automotive Technology requires the completion of the General Education courses (see page 54) plus the following: Auto. 100, 110, 120, 130 or Accounting 101, Auto. 190, 200, 220, 250, 260, and Drafting & Design 110.

AUTOMOTIVE TECHNOLOGY

5306-100—Automotive Engines (F)

7 hrs. cr.

A beginning course in the theoretical and practical application of internal combustion engines. This course covers engine operation, cycles, design and service of component and accessory systems. The laboratory provides the student with the opportunity to develop skills in the diagnosis and service of engines and their supportive systems. Three one-hour lectures; twelve hours laboratory per week.

5306-110—Technical Mathematics (S)

3 hrs. cr.

Review of basic mathematics, algebra, and the functional concepts of trigonometry. Includes use of tables and graphic methods of solving problems with emphasis on application to problems in applied fields. Daily. Prerequisite: Math 20-30.

5306-120—Automotive Electrical and Emission Control (S)

7 hrs. cr.

Course of study of electricity, the ignition system, fuels and lubricants, carburetion and emission control systems found on the internal combustion engine. Emphasis is placed on the operation, diagnosis and service of each of these systems. The laboratory period provides the student an opportunity to apply the theoretical knowledge to practical problems. Three one-hour lectures; twelve hours laboratory per week.

5306-130—Automotive Business Management (F)

3 hrs. cr.

A basic accounting cycle with emphasis on recording transactions affecting cash, sales, purchases, and the preparation of financial statements. Three one-hour lectures.

5306-150—Automotive Theory and Mechanics (demand)

3 hrs. cr

A course designed to acquaint the student with theoretical and practical knowledge of the basic functions, care and maintenance of the various automotive systems and common accessories. Laboratory periods provide students the opportunity to learn common diagnostic techniques and to make nontechnical corrections of the more commonly occurring automotive malfunctions. Basic safety inspections will be emphasized. Suggested as an essential course for all students obtaining certification as instructors of driver education and as an elective course for any student who wishes to increase his or her knowledge about the automobile. Two one-hour lectures; one two-hour laboratory per week.

5306-190—Technical Science (F)

4 hrs. cr.

A study of the forces, laws of motion, mechanical power, fluid mechanics, and other physics principles as related to present day prime movers. Course work places emphasis on applied or practical application. Three one-hour lectures; one two-hour laboratory per week. Prerequisites: Auto. 110 or Math 100 with a minimum grade of C.

5306-200—Automotive Chassis, Brakes and Transmission (F)

7 hrs. cr

A study of the design, operating principles and service procedures of the chassis suspension system, brakes and drive line of the modern motor vehicle. The laboratory emphasizes the diagnosis and service of these components. Three one-hour lectures; 12 hours laboratory per week.

5306-220—Automotive Air Conditioning and Accessories (F)

4 hrs. cr.

A course to familiarize the student with automotive air conditioning units and power accessories. The emphasis is placed on service and diagnosis of these units on and off the vehicle. Three one-hour lectures, one three hour lab per week. Prerequisite: 5306-120 Automotive Electrical and Emission Control.

5306-250—Automotive Body and Paint (S)

7 hrs. cr.

A study of the methods of auto body construction, repair, refinishing processes and materials. The laboratory provides the students with the opportunity to repair various types of body damage and experiment in the use of the various types of repair and refinish materials. Three one-hour lectures; 12 hours laboratory per week.

5306-260—Auto Service Management (S)

7 hrs. cr

The principles of shop design, personnel and production management, and industrial safety. The laboratory provides the student with the opportunity to gain additional experience in the area he chooses to specialize. Three one-hour lectures; 12 hours laboratory. Prerequisite: Auto 100, 120, 200, and 220 with minimum grades of C.

5306-498—Seminar in Automotive Technology (demand)

1-3 hrs. cr.

Covers specialized knowledge and skills related to new developments in automotive design and service. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology and the Associate Degree in Automotive Technology.

5306-499—Independent Study in Automotive Technology (demand) 1-3 hrs. c

Individually directed readings, research, and discussions in selected areas of automotive technology for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission of instructor.

BIOLOGY

Division of Arts and Sciences

Bingman, Elick, Ferron, Gibson, Kirkham, Orr, Prentice, Stebbins, Tillman

The biology department provides an opportunity for students to specialize in the areas of classical, allied health, or environmental aspects of biology.

The Bachelor of Science Degree with a major in Biology requires 40 hours in Biology. Required courses include: Bio. 101, Bio. 112, Bio. 122, Bio. 210, Bio. 211 or 231, Bio. 305, and Bio. 490.

Upper division students may follow interests but must take at least one course from each of the following areas:

Group A - Bio. 316, Bio. 322, Bio. 414

Group B - Bio. 331, Bio. 442, Bio. 462

Group C - Bio. 312 and 314, Bio. 402

Note: Some graduate schools require at least one systematics course. Additional requirements include 13 hours of chemistry through organic, Math 140 and four hours of elementary physics. Chem. 302 is strongly recommended.

Students planning on going into professional schools such as dentistry, medicine, veterinary science, etc. should consult the pre-professional advisor within the biology department about specific requirements for these areas of study. Bio. 499 is strongly recommended for qualified students.

The Bachelor of Science in Education degree with biology as a single teaching field (Plan B) requires 35 hours in biology plus 18 hours in supporting subjects of chemistry and mathematics. Required courses include Bio. 101, and Bio. 112, Bio. 122, Bio. 211 or 231 and Bio. 305 in addition to a total of 19 upper division hours in biology. Math 140 and 13 hours of chemistry

through organic are also required. Elementary physics and Geol. 110 are strongly recommended.

The Bachelor of Science in Education degree with biology as one of two teaching fields (Plan A) must complete 23 semester hours in biology, 13 of which must be upper division, plus 15 hours in supporting subjects of science and mathematics. Required courses are Bio. 101, Bio. 112, Bio. 122, Chem. 101, Math 140 and either elementary physics or Geol. 110. Both of the latter are strongly recommended.

See page 93 for teacher education requirements.

0401-101—General Biology (F,S)

4 hrs. cr.

A one semester general treatment of the unifying principles of living things including metabolism, genetics, evolution and ecology. Emphasis will be upon these biological principles as they relate to humans. Three lectures and one 2 hour lab per week. (Formerly Bio. 100.)

0402-112—Botanical Survey (F,S)

3 hrs. cr.

The morphology, physiology and classification of plants are studied with an emphasis upon morphology and classification. Two lectures and one 2 hour lab per week. Prerequisite: Bio. 101.

0407-121—General Zoology (F,S)

4 hrs. cr.

This course is an introductory study of the basic principles of cytology, metabolism and genetics. A brief survey of those invertebrates that directly relate to man will be made. The emphasis will be placed upon the anatomy and physiology of man in preparation for Bio. 221. Three lectures and one 2 hour lab per week. (Formerly Bio. 120.)

0407-122—Zoological Survey (F,S)

3 hrs. cr.

The morphology, physiology and classification of animals are studied with an emphasis upon morphology and classification. Two lectures and one 2 hour lab per week. Prerequisite: Bio. 101.

0417-210—General Physiology (F,S)

4 hrs. cr.

A detailed study of biological function at the cell and molecular level. Prerequisite: Bio. 101, Bio. 112, Bio. 122.

0411-211—Microbiology (S)

5 hrs. ci

Principles of general microbiology with special emphasis on the anatomy, nutrition, physiology and chemistry of bacteria, fungi, and other microscopic organisms. Three lectures and two 2 hour labs per week. Prerequisites: Bio. 101 and one year of inorganic chemistry, or permission of the instructor.

0412-221—Human Anatomy and Physiology (F,S)

5 hrs. cr.

The structures and functions of the human body with emphasis on arrangement of organs and coordination of body systems. Three lectures and two 2 hour labs per week. Prerequisite: Bio. 121 or Bio. 101 and 122.

0411-231—Fundamentals of Medical Microbiology (F)

5 hrs. cr.

For students interested in paramedical professions. Topics of study include the general principles of microbiology, immunology, host-parasite relationships of pathological organisms. Three lectures and two 2 hour labs per week. Prerequisite: 1 course each of a college chemistry and a biological science. Credit toward the biology major may include either Bio. 211 or Bio. 231 but not both.

0401-250—Contemporary Issues in Biology (S)

2 hrs. cr.

A course designed to help students gather data and formulate their own opinions on current issues in biology. Prerequisite: Bio. 101, Bio. 112, Bio. 122.

0422-305—Genetics (F,S)

4 hrs. cr.

A comprehensive introduction to the principles of heredity and variations as exemplified by both higher plants and animals. Emphasis will be placed on the cytological and molecular approach to gene action, linkage, crossing-over and various other genetic mechanisms. Labs will primarily be designed to allow students the opportunity to experimentally work with genetical principles and develop scientific methodology. Three lectures and one 2 hour lab per week. Prerequisite: Bio. 101. (Formerly Bio. 202.)

0412-306—Human Physiology and Anatomy (F,S)

5 hrs. cr.

The structures and functions of the human body with emphasis on arrangement of organs and coordination of body systems. Three lectures and two 2 hour labs per week. Prerequisite: Bio. 121 or (Bio. 101 and 122), for students working on a four year degree. Lectures and labs will coincide with Bio. 221. (Credit will not be given for Bio. 221 and Bio. 306).

0420-310—Field Biology (F,S)

2 hrs. cr.

The course engenders appreciation and understanding of the local flora and fauna, and provides information pertinent to preparation and preservation of specimens for laboratory use. Consists of one lecture and one 2 hour laboratory each week. At least one Saturday field trip will be required. Prerequisite: Bio. 101 or permission of instructor. (Does not count toward any biology major.)

0420-312—Environmental Biology (F)

3 hrs. cr.

A study of environmental factors and their interactions with living things. Emphasis is placed on human ecology and wise environmental utilization. Three lectures per week. Prerequisite: Physics 100, Biology 101, Math 110; or permission of the instructor.

0420-314—Environmental Biology Laboratory (F)

2 hrs. cr.

Practical experiences in measuring environmental factors and conducting ecological investigations. Four hours of laboratory per week. Co-requisite or Prerequisite: Biology 312 or permission of the instructor.

0402-316—Economic Botany (F)

3 hrs. cr.

A comprehensive study of the economic uses of plants. The present and possible future value of lower plants is covered. Emphasis is placed upon the economic aspects of higher plants from an agricultural, horticultural, and crop selection viewpoint as well as from a pharmacological, textile usage, etc. view. Three lectures a week. Prerequisite: Bio. 101 or equivalent. (Formerly Bio. 201.)

0417-318—Cell Biology (S,Odd)

4 hrs. cr.

A study of cell structure and function in detail. Emphasis will be placed upon cytological physiology. Three lectures and one 2 hour lab per week. Prerequisite: Bio. 112, 122, 305, and Chem. 301 or consent of the instructor.

0402-322—Taxonomy of Flowering Plants (S)

4 hrs. cr.

The relationships among selected plant groups, classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora will be emphasized. Two lectures and two, 2 hour lab/week. Prerequisites: Bio. 101 and 112.

0408-331—Comparative Chordate Anatomy (F)

5 hrs. cr.

Designed for the serious student of biology or those students planning to enter professional schools of medicine, dentistry or veterinary science. Acquaints the student with the evolutionary trends of chordate structure and development with special emphasis on the vertebrate organs and organ systems. Two lectures and two 3 hour lab/week. Prerequisite: Bio. 101 and 122.

0421-332—Introduction to Entomology (F,Even)

3 hrs. cr.

A study of the insects with respect to collecting methods, taxonomy, life history, morphology and evolution. Prerequisites: Bio. 101 and 122. Two lectures and one 3-hour lab/week.

0411-342—Microtechnique (Offered only on demand)

2 hrs. cr.

A study of the principles of preserving, fixing, staining, and mounting of biological materials. Prerequisites: Bio. 101 and 121. Two 2 hour labs/week.

0408-343—Vertebrate Natural History (S)

4 hrs. cr.

Identification, distribution, behavior and life histories of vertebrate animals with emphasis on field studies. Three lectures and one 2 hour lab per week. Prerequisite: Bio. 122. (Formerly Bio. 341.)

0408-352—Biomes (S)

z nrs. cr

A study of the interactions between plants and animals in a variety of different habitats. Since an extended field trip comprises a significant portion of the study for this course, travel expenses must be paid by the student during registration. Prerequisite: Bio. 101, Bio. 112, Bio. 122, and permission of the instructor.

0411-361—Parasitology (F, Even)

4 hrs. cr.

A systematic investigation of the numerous parasites which may be found within vertebrates. Emphasis will be placed on those parasites which infest man. Prerequisite: Bio. 122.

0411-362—Virology (S,Odd)

3 hrs. cr.

A study of the viruses, the diseases they cause, their life cycles within cells, and mechanisms of regulation. Prerequisite: Bio. 211 or Bio. 231.

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0408-370—Environmental Health (Offered only on demand)

3 hrs. cr.

A lecture course concerned with contemporary environmental health problems and consumer protection measures. Topics will include public health, food processing and contamination, disease prevention, etc. Three lectures per week. Prerequisite: Junior standing and 8 hours of science or permission of instructor.

0420-402—General Ecology (S)

4 hrs. cr.

A study of plant and animal communities in relation to their environment, emphasizing the flora and fauna of Southwest Missouri. Soils, climate and other major environmental factors responsible for the distribution and association of plants and animals are also considered. Three lectures and one 3 hour lab/week. Prerequisite: Bio. 101, 112, and 322, or consent of the instructor.

0406-414—Plant Anatomy (F,Odd)

4 hrs. cr.

A comparative study of the tissues and cellular structure in the higher plants as illustrated in roots, stems, and leaves with special emphasis upon the evolution and development of the structures. Three lectures and one 2 hour lab per week. Prerequisite: Bio. 112. (Formerly Bio. 413.)

0410-431—Animal Physiology (F, Even)

5 hrs. cr.

A comprehensive coverage of the chemical and physical phenomena occurring within living animals, with major emphasis placed on vertebrates. Three lectures and two 2 hour lab/week. Prerequisite: Organic Chemistry and 10 hours of biology. Bio. 331, recommended.

0413-433—Histology (F,Odd)

4 hrs. cr.

A detailed study of microscopic structure of animal tissues and organs with special emphasis on mamalian tissue. Three lectures and one 3 hour lab per week. Prerequisite: 10 hours of zoology or consent of the instructor.

0410-442—Invertebrate Zoology (S)

5 hrs. cr.

Classification, morphology, physiology, development and evolution of the classes of invertebrate animals. Three lectures and two 2 hour lab/week. Prerequisite: Bio. 122.

0408-456—Immunology (S,Even)

3 hrs. cr.

To provide a course for those interested in the health sciences and who wish to know more about the immune mechanism and their roles in prevention of disease, hypersensitivity, and transplantation immunity. Three lectures per week. Prerequisites: Bio. 211 or 231 and Bio. 305.

0410-462—Embryology (S,Odd)

5 hrs. cr.

Includes detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures and two 2 hour lab/week. Prerequisite: Bio. 122 and/or Bio. 331.

0498-490—Seminar (F,S)

1 hr. cr.

A faculty supervised discussion group concerned with reviews and reports covering current topics in the various fields of biology. Faculty members, as well as students, will present reviews in their various areas of interest. One meeting/week. Prerequisites: Primarily for biology majors of junior standing or other interested students with at least 15 hours of biological science.

0499-498—Seminar in Biology (F,S)

1-3 hrs. cr.

A seminar for upper division majors only. The class will meet regularly a minimum number of hours. The course is designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisite: Junior standing, 20 hours in biology and a minimum GPA of 2.5 in biology, or permission of the instructor required.

0499-499—Problems in Biology (F,S)

1-3 hrs. cr.

Consists of individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, Department Head and Division Dean. Prerequisite: A minimum GPA of 3.0 in 20 hours of biology.

GENERAL BUSINESS

Division of Business Administration

Compton, Grim, Hartley, Leitle, Miller, Price, Snow, Tiede

The student may consider four majors to the Bachelor of Science in Business Administration Degree program.

Required courses (core) common to all B.S.B.A. majors are listed below by departments offering course/s with HEGIS codes omitted:

Economics & Finance		
Accounting	101,102	6 hours
General Business	101, 301, 302, 320, 321	15 hours
Economics & Finance	201, 202, 300, 350	12 hours
Marketing & Management	300, 350, 352	9 hours
		42 hours

In addition to the General Education Requirements (see page 51) and the core requirements listed above the requirements by major are:

Accounting Major—Requires an additional 18 hours of accounting courses.

General Business Major—Requires an additional 12 hours of Business and Economics courses, with at least 3 hours selected from each of the departments of General Business, Economics & Finance, and Marketing & Management.

Economics & Finance Major—Requires an additional 18 hours, 9 hours of which must include Economics & Finance 401, 402, and 411. The remaining 9 hours may be selected from Economics 302, 498, GB/Econ. 322, History 331, or Geography 221.

Marketing & Management Major—Requires an additional 18 hours of Business and Economics courses, 12 hours of which are selected from Marketing & Management courses.

The Bachelor of Science Degree with a major in Management-Technology is a transfer degree program and requires a minimum of an Associate Degree (or equivalent) in an acceptable technological field for admission to the program.

Required courses (core) common to all B.S.M.T. majors are listed below by departments offering the courses with HEGIS codes omitted.

Accounting	101, 102	6 hours
General Business	301, 302, 320	9 hours
Economics & Finance	201, 202, 350	9 hours
Marketing & Managemer	nt 300, 350, 352	9 hours
Maria and the section		33 hours

In addition to the General Education Requirements (see page 51) and the core requirements previously listed an additional 9 hours, determined upon admission to the program, are to be selected from Accounting 310; General Business 321, 337; Marketing & Management 401, 412, 431, and/or 452. The composition of the additional 9 hours may be altered with prior approval to meet specific career goals.

The **Bachelor of Science in Education** degree with Business Education as one of two teaching fields (Plan A) consists of 30 semester hours.

The required courses are listed below by departments with HEGIS codes omitted:

Accounting	101, 102, and either 212 or 310 or 401	9 hours
Economics & Finance	201, 202	6 hours
*Office Administration	101, 102, 111, 120	12 hours
upper division elective in business		3 hours
		30 hours

The **Bachelor of Science in Education** degree with Business Education as a single teaching field (Plan B) consists of 42 semester hours.

The required courses are listed below by departments with HEGIS codes omitted:

Jiiiittea.		
Accounting	101, 102 and either 212 or 310 or 401	9 hours
General Business	121, 301, 302	9 hours
Economics & Finance	201, 202	6 hours
Marketing & Management	300 or 350	3 hours
*Office Administration	101, 102, 111, 120	12 hours
upper division elective in business		3 hours
on your case of any and the		42 hours

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 30 or 42 hours requirement. (See page 93 for teacher education requirement.)

0501-101—Introduction to Business (F,S)

3 hrs. cr.

An introductory course in modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation.

050-110—Business Mathematics (F,S)

3 hrs. cr.

A review of the fundamental processes of mathematics as applied to business. It also includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes, and financial statements. It should be taken concurrently with or precede accounting and/or office machines.

5005-121—Office Machines (F,S)

3 hrs. cr.

A laboratory course in the operation of the office machines found in the modern business office. Training is given in the operation of the ten-key and full-key adding machines, the electronic calculator, the rotary calculator, the printing calculator, the key-driven calculator, the bookkeeping machine, the transcriber, and the spirit and stencil duplicators. Emphasis is placed upon the student developing accuracy and speed in working typical business problems. Meets five days a week. Prerequisite: 1 semester of high school or college typewriting.

5005-122-Office Machines (S)

3 hrs. cr.

An advance laboratory course, continuing the work as set up in office machines 121. Special emphasis is placed on machine bookkeeping and the electronic, rotary and printing calculators. The student is also expected to attain additional skill in the operation of adding machines. A special unit of the course includes operation of programmatic electronic equipment. Meets three days a week. Prerequisite: GB 121.

0501-320—Business Communications (F,S)

3 hrs. cr.

The study of principles for writing effective business letters, memos, formal and informal reports and all phases of effective business communications. Prerequisites: Eng. 101 and 102 or permission.

0506-301—Business Law (F,S)

3 hrs. cr.

A study of the principles of law and its enforcement as applied to American Business. The course includes the study of contracts, agency and employment, negotiable instruments, personal property, bailments, and sales of goods. Special attention is placed on law terminology and cases and problems are used to illustrate the various aspects of business law.

0506-302—Business Law (F,S)

3 hrs. cr.

Relates to partnerships, corporations, real property and leases, insurance security devices, bankruptcy, trusts and estates, and government regulations. Cases and problems are used extensively. Prerequisites: Junior standing or consent of the instructor. 301 should precede 302.

0501-310—Consumer Economics, Personal Economics, Personal Finance, and Citizenship (demand)

2 hrs. cr

A course designed to give the student useful tools that will enable him to learn the management of personal and family finances. Areas covered: Budgeting, insurance, income taxes, consumer credit, investments, real estate, etc. Prerequisite: Junior standing. Not open to Business Majors.

0503-321—Business Statistics I (F,S)

3 hrs. cr.

Introduction to the basic concepts of statistical inference and to the methods of statistical analysis. Prerequisite: Math 130 or equivalent.

0503-322—Business Statistics II (S)

3 hrs. cr.

Study of methods of statistical analysis relating to business decision making and research in business and economics. Covers probability theory, tests of hypotheses, sampling and experimental design, correlation, non-parametric statistical methods, and selected statistical techniques. Prerequisite: Business Statistics I.

0506-337—Managerial Data Processing (F)

3 hrs. cr.

Study of the application of automatic information processing to business, the media for recording, processing, and controlling of business information by the automatic process, and the formats and flow of data through electronic computers with simulated problems applicable to areas of Accounting, Management, and Marketing. Prerequisite: Junior standing in Business Administration.

0502-401—Tax Accounting (See Accounting 401) (F,S)

3 hrs. cr.

0599-498—Seminar in General Business (demand)

1-3 hrs. cr.

A seminar for upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

0599-499—Independent Study in General Business (demand)

1-3 hrs.

Individually directed readings, research, and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission.

CHEMISTRY

Division of Arts and Sciences Department of Physical Science Albright, Baiamonte, Kash, Whittle

A major for the Bachelor of Science degree consists of 34 semester hours in chemistry plus 20 additional hours in mathematics and physics. The required courses are: Chem. 101, Chem. 102, Chem. 162, Chem. 201, Chem. 301, Chem. 302, Chem. 401, 4 elective upper division hours in chemistry, Math 150, Math 250, Phys. 250, and Phys. 260.

A major for the Bachelor of Arts degree consists of 25 semester hours in chemistry plus 13 additional hours in mathematics and physics. The required courses are: Chem. 101, Chem. 102, Chem. 162, Chem. 201, either Chem. 300 plus 4 hours of upper division chemistry electives (excluding 301) or Chem. 301 and Chem. 302, Math 140 or Math 150, Phys. 151, and Phys. 152. An A.B. degree is for students who desire some knowledge of chemistry as a basis for work in other fields, but who do not expect to become professional chemists.

A major for the Bachelor of Science in Education degree with one teaching field (Plan B) consists of 50 semester hours. The required courses are: Chem. 101, Chem. 102, Chem. 162, Chem. 201, Chem. 301, Chem. 302, Chem. 401, Math 150, Math 250, Phys. 250, and 5 elective hours in 200 level and above courses in mathematics, physics and/or Chemistry. See page 93 for teacher

education requirements.

A major for the Bachelor of Science in Education degree with Chemistry as one of two teaching fields (Plan A) consists of 25 semester hours of chemistry plus 5 hours of mathematics. The required courses are: Math 140, Chem. 101, Chem. 102, Chem. 162, Chem. 201, and either Chem. 301, Chem. 302, or Chem. 300 plus 4 hours of upper division chemistry electives (excluding Chem. 301).

Physical Science Major

A major for the Bachelor of Science in Education degree with a double teaching field in physics and chemistry consists of 21 hours of chemistry and 20 hours of physics, 5 hours of Geology, plus mathematics through Math 260. The required courses are: Phys. 250, Phys. 260, Phys. 301, Phys. 381, Chem. 101, Chem. 102, Chem. 162, Chem. 201, Chem. 301, Geol. 110, plus 3 hours of upper division electives in physics. See page 93 for teacher education requirements.

1905-100—Introductory Chemistry (F,S)

5 hrs. cr.

The basic principles and theories of general chemistry. Primarily designed as a terminal course in Chemistry. Three lectures, one 3-period laboratory, and one recitation session per week.

1905-101—General Chemistry I (F,S)

5 hrs. cr.

Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of changes. Three lectures, one 3-period laboratory, and one recitation session per week. Prerequisite or corequisite: Math 140 or higher level math course.

1905-102—General Chemistry II (F,S)

3 hrs. cr.

A continuation of Chem. 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Three lectures and one recitation session per week. Prerequisites: Chem. 101 with a minimum grade of C or permission of instructor and Math 140 or higher level math course.

1909-162—Qualitative Analysis (S)

3 hrs. cr.

Identification of cation and anions. Application of principles presented in Chem. 102. One lecture and two 3-period laboratories per week. Prerequisite or corequisite: Chem. 102.

1909-201—Quantitative Analysis (F)

5 hrs. cr.

Includes volumetric, gravimetric, and some potentiometric and spectrophotometric analysis. Three lectures and two 3-period laboratories per week. Prerequisite: Chem. 102. 1907-300—Introduction to Modern Organic Chemistry (S)

5 hrs. cr.

The basic principles of organic chemistry - nomenclature, structure, properties, stereochemistry, reactions - will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as a background for other courses in technical or professional training programs. Three lectures, one 3-period laboratory, and one recitation session per week. Prerequisite: Chem. 102.

1907-301—Organic Chemistry I (F)

Deals with both aliphatic and aromatic compounds, their nomenclature, properties, reactions and stereochemistry. Three lectures, one 3-period laboratory, and one recitation section per week. Prerequisite: Chem. 102.

1907-302—Organic Chemistry II (S)

5 hrs. cr.

A continuation of Chem. 301. A mechanistic treatment of substitution, elimination, addition, and free radical reactions. Three lectures, one 3-period laboratory, and one recitation session per week. Prerequisite: Chem. 301.

1908-401—Physical Chemistry I (F,Odd)

Gases, solids, liquids, homogeneous and heterogeneous solutions and thermodynamics. Theoretical derivations of equations and mathematical treatment of physical and chemical phenomena. Three lectures and one 3-period laboratory per week. Prerequisites: Math 250 and Phys. 260.

1908-402—Physical Chemistry II (S,Odd)

A continuation of Chem. 401. The study of chemical kinetics, electromotive force, photochemistry, colloid chemistry, and atomic and molecular structure. Three lectures and one 3-period laboratory per week. Prerequisite: Chem. 401.

1909-421—Instrumental Analysis (S)

Special analytical technique using spectrophotometry, gaschomatography, colorimetry, and electrometric methods to include potentiometric, conductometric, polargraphic, and electrogravimetric analysis. Three lectures and two 3-period laboratories per week. Prerequisite: Chem. 201.

1906-422—Advanced Inorganic Chemistry (F, Even)

Modern inorganic chemistry with emphasis upon coordination complexes, periodic classification of the non-transitional and transitional elements. Three lectures and one 3-period laboratory per week. Prerequisites: Chem. 102 and Math 250

1907-472—Organic Qualitative Analysis (S, Even)

Systematic identification of organic compounds and mixtures. Two lectures and two 3-period laboratories per week. Prerequisite: Chem. 302.

1999-498—Seminar (F.S)

A seminar for upper division chemistry majors. The content of the course, depending on the students' needs, will vary from library research to special topics in chemistry. Prerequisite: senior standing or permission of the Department Head.

1999-499—Independent Study (F,S)

Independent investigation techniques; includes a paper upon a selected topic with both a critical survey of the chemical literature and results from advanced laboratory experimentation. Open to students having (1) a minimum of 15 hours of chemistry, (2) the ability to undertake independent work, and (3) permission of the instructor. Registration must be approved by the Adviser, Department Head, and Division Dean.



COMPUTER SCIENCE

Division of Technology

Cragin, Gray

The increasing use of computers in business, science, and industry has created many opportunities for employment in banking, business, industry, and various

governmental agencies. There are currently four programs offered:

1. The ASSOCIATE OF SCIENCE DEGREE IN COMPUTER PROGRAMMING is oriented toward Business/Management Programming. It requires completion of the General Education courses (see page 54), plus the following: Acct. 101, 102 and 212 or 310; Comp. 100, 110, 120, 230, 240, 250 and 300; Econ. 201 and 202; GB 321; and Math 130 or 140. This is a two-year program.

2. The ASSOCIATE OF SCIENCE DEGREE IN ELECTRONIC DATA PROCESSING COORDINATION prepares the graduate for employment in a typical data processing installation. Its orientation is toward Office Administration and general secretarial work related to Data Processing. It requires completion of the General Education courses (see page 54), plus the following: Acct. 101 and 102; Comp. 100, 110, 120 and 230; GB 101 and 321; Math 130; OA 200; and four courses elected from among the following: GB 121, 122, 320, 301, 302 and 337; Comp. 300; MM 300, 350 and 352; OA 111, 210 and 230. This is a two-year program.

3. The ASSOCIATE OF SCIENCE DEGREE IN COMPUTING ANALYSIS is oriented toward Science/Engineering Programming. The programmer confers with engineers, scientists or management in the development of efficient solutions to problems. It requires completion of the General Education courses (see page 54), plus the following: Comp. 120, 220, 230, 240 and 250; Math 150, 250, 260, 322,

361 and 431 or 350; Phys. 250 and 260. This is a two-year program.

4. The DATA PROCESSING CERTIFICATE Program provides the student with the essential training for employment in a typical data processing installation. It requires the completion of Acct. 101; Eng. 101; GB 101; Math 130 or 140; Comp. 100, 120 and 230; GB 320; Speech 100. This is a one-year program.

5101-100—Introduction to Data Processing (F,S)

Illustrates need for machines in accounting and record keeping, and demonstrates the concept, power, and flexibility of the unit record. Includes unit record machine functions, elements of machines: card punch, verifier, interpreter, sorter, reproducing punch, collator, tabulators, and calculators. Introduction to number systems. Basic problem analysis and logical block diagramming. Familiarization with higher-level programming languages. Three 1 hour lectures per week.

5102-110—Key-Punch and EAM Operations (F,S) 3 hrs. cr.

Preliminary emphasis on basic mastery of the keyboard and mechanism of the key-punch. Latter portion of the course places emphasis on speed and accuracy of operation of both key-punch and EAM (Electro-Mechanical Accounting Machines) equipment. Three one hour lectures and two one hour labs per week. Prerequisite: High School or College typing or equivalent.

5103-120—Introduction to Programming (F,S) 3 hrs. cr.

An introduction to digital computers which includes: Basic principles, systems theory, decimal systems, arithmetic operations, self-complementing codes and other coding systems, computer logic, systems components, general block diagram and program functions, high speed memory, programming essentials, and solution of simple data processing problems. Two 1 hour lectures; 2 hours of laboratory per week. Prerequisites: Comp. 100 and Math 130 or consent of instructor.

5104-220—Analog Methods and Simulation Techniques (S)

Methods and techniques of solving systems of simultaneous differential equations on electronic analog computers, and digital computers. Includes

the principles of multiplication and division and simulation of non-linear devices and systems, block diagramming of systems, familiarization with La Place methods, transfer functions. Certain design problem applications will be treated. Corequisite: Math 322.

5103-230—Advanced Programming (F,S)

3 hrs. cr.

Functions and capabilities of digital computers. Special techniques and methods essential to becoming a programmer. Includes applications, systems, special subroutines. Two one hour lectures and three one hour laboratories per week. Prerequisite: 5103-120 (Intro. to Programming).

5104-240—Computer Applications (F)

3 hrs. cr.

A continuation of programming technique development. Principles presented in previous courses will be employed in this course. Emphasis will be placed on non-routine types of applications, including quality control, statistics, curve-fitting, forecasting, etc. Latter portion of course involves individual projects with oral and written reporting. Two one hour lectures and three one hour laboratories per week. Prerequisite: 5103-120 (Intro. to Programming).

5103-250—Principles of Digital Computing Machines (F)

3 hrs. cr.

Provides the necessary foundation for study of computing machines. Includes the concepts of notation, binary system, octal system, systems conversions, representation of a number with an arbitrary base, fixed and floating point numbers, precisions, switching circuits. Boolean Machines and other discrete mathematical topics. Three one-hour lectures per week; laboratories by arrangement. Prerequisite: 5103-120 (Intro. to Programming).

5104-300—Systems Analysis and Design (S)

3 hrs. cr.

Business systems analysis design and development. Designed to guide the student through the evolution of a system, analysis of present information flow, system specifications and equipment selections, and implementation of the system, includes the approach, requirements of a system, development of the solution, data controls, system controls, system evaluation, finalizing the system and system evaluation. Familiarization with special Mgmt. Science functions (e.g. Work Measurement, Work Sampling, Forms Design and Control, Mgmt. Research). Three one hour lectures plus laboratories by arrangement. Prerequisite: 5103-230 (Advanced Programming).

5104-498—Seminar in Computer Science (demand)

1-3 hrs. cr.

A seminar for students vocationally oriented toward automated data processing. The course content will depend on the needs of the attendees. Prerequisites: 60 hours college credit with a grade point average of 3.0 or permission of the department head.

5104-499—Independent Study (demand)

1-3 hrs. cr.

An independent study course structured by the adviser with approval of the department head. Prerequisite: 60 hours credit with a grade point average of 3.0. Registration in the course must be approved by the adviser and the department head.

DENTAL ASSISTING

Gremling, Karst, Noirfalise

Missouri Southern State College offers a planned two semester curriculum in the field of Dental Assisting. Graduates of this program are eligible to take the examinations required for certification as a Certified Dental Assistant.

The Dental Assisting curriculum is a limited enrollment curriculum, therefore admission to the College does not automatically convey admission to this program, however, eligibility for admission to the College must be established before consideration for admission to Dental Assisting can be given. Applications for admission to Dental Assisting should be submitted to the Dental Assisting office before May 1. Detailed information regarding admission requirements to the Dental Assisting curriculum may be obtained from the Director of Dental Programs.

Completion of this program requires the completion of all Dental Assisting (5202) courses plus other courses indicated in the suggested order of study.

5202-100—Introduction to Dental Assisting (F)

3 hrs. cr.

An introduction to human anatomy and physiology with emphasis on the head and neck region. Includes dental anatomy with a detailed study of cusps, grooves, roots, ridges, and their relationship to occlusion. Reproduction of tooth forms by scaled drawings. Three lectures per week.

5202-120—Dental Laboratory Procedures I (F)

3 hrs. cr.

This course is a study and practicum in pouring of plaster and stone casts, the preparation of custom impression trays and impression materials, base plates and rims, the preparation of restorative materials, plus the use of dental equipment. Two lectures; two hours laboratory per week.

5202-130—Introduction to Dental Clinical Practice (F)

4 hrs. cr.

An introduction to clinical chairside assisting. Lectures include orientation to the profession of dental assisting, and dental psychology. Extra-mural training in dental offices the last ten weeks. Two lectures; six hours laboratory per week.

5202-140—Dental Operative Procedures I (F)

3 hrs. cr.

Course deals primarily with the care and manipulation of equipment, instruments, and supplies, and the recognition of dental instruments, equipment supplies, and their relationship to dental procedures. Lectures correlate with laboratory session of Dental Assisting 130. Three lectures per week.

5202-150—Advanced Dental Assisting (S)

3 hrs. cr.

An introduction to microbiology, pharmacology, pathology, and diet and nutrition related to the science of dentistry. Three lectures per week.

5202-160—Dental Laboratory Procedures II (S)

3 hrs. cr.

Continuation of Dental Laboratory Procedures I. Two lectures; one 2 hour laboratory per week.

5202-170—Dental Office Procedures (S)

3 hrs. cr.

General office management, record keeping, appointment scheduling, telephone techniques, collection of accounts, and communication. Three lectures per week.

5202-180—Dental Operative Procedures II (S)

3 hrs. cr.

Continuation of Dental Operative Procedures I with the student receiving practice and instruction in various procedures with emphasis on dental specialties. Lectures include instruction on first aid, and dental office emergencies. Five hours lecture-demonstration per week.

5202-190—Practicum in Dental Clinical Practice (S)

4 hrs. cr.

Twelve hours clinical practice per week in participating clinical facilities.

DENTAL HYGIENE

Gremling, Overman

Missouri Southern State College offers an Associate of Science in Dental Hygiene. Satisfactory completion of the requirements for this degree qualifies the graduate to take the National Board Dental Hygiene Examination as well as the clinical examinations required for licensure in Missouri and other states.

Enrollment in Dental Hygiene is limited, therefore admission to the College does not automatically convey admission to the Dental Hygiene curriculum, however admission requirements of the College must be met before an applicant will be considered for admission to Dental Hygiene. Admission to Dental Hygiene requires special testing and other special requirements. Complete details regarding the special requirements, tests, etc., may be obtained from the Dental Hygiene Department. Applications for admission to Dental Hygiene should be submitted to the Dental Hygiene Department before May 1.

The Associate of Science in Dental Hygiene requires the completion of all Dental Hygiene (5203) courses, specified supporting science classes, and general education requirements for the Associate of Science. Deviations from the suggested order of study must have adviser approval.

5203-100—Fundamentals of Dental Hygiene (S)

5 hrs. cr.

3 hrs. cr.

Introduction to the field of oral hygiene emphasizing: chairside patient education, principles of oral physiotherapy, hard and soft deposits of the teeth, principles of instrumentation, sterilization, and dental equipment. Dental hygiene procedures and techniques are practiced in the clinical environment. Two lectures; two 4 hour laboratories per week.

5203-150—Embryology, Histology, & Dental Anatomy (F)

Study of the gross and microscopic development of the teeth, supportive structures of the teeth, and anatomy of the head and neck region. Includes a self-instructional program in dental anatomy which includes a detail study of deciduous and permanent teeth as to fossal, cusps, grooves, ridges, roots, and the relationship and form and function. Occlusion and malocclusion are studied according to their relationship to dental health. Two lectures; one 3 hour laboratory per week.

5203-160—Dental Radiology (S)

2 hrs. cr.

The study of the theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed. One lecture; three hours laboratory per week.

5203-190—Clinical Dental Hygiene I (Summer)

3 hrs. cr.

Introduces the student to the clinical practice of dental hygiene. The student gains experience in providing patient services through providing oral prophylaxes,

taking and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies will be covered in the lecture session. One lecture; twelve hours laboratory per week.

5203-200—Fundamentals of Dentistry (F)

3 hrs. cr.

Fundamentals of teaching and learning theories are discussed. The student learns to develop teaching units and lesson plans for various public groups and/or organizations. Practical experience in public schools and community groups is included. The eight recognized dental specialties are discussed and their relationship to dental hygiene and preventive dentistry. Three hours lecture per week.

5203-210—Perio-Pathology (F)

3 hrs. cr.

Lectures and laboratory periods devoted to the study of all pathological conditions, etiology of diseases, degenerative process, inflammation, infection, and immunity. Etiology, classification, treatment, and prevention of periodontal disease will be stressed. Three lectures; one 1 hour laboratory per week.

5203-220—Dental Materials and Assisting (F)

3 hrs. cr.

The student will study and experience working with various restorative materials used in dentistry. Experience in chairside assisting is included for practical experience in working with materials and restorative instruments. Two lectures; one 2 hour lab per week.

5203-290—Clinical Dental Hygiene II (F)

5 hrs. cr.

Continuation of Clinical Dental Hygiene I with added responsibilities as skills develop. The student will have experience in extramural community activities such as nursing homes, public health department, clinic for mentally handicapped. Lecture will include advanced dental hygiene techniques. One lecture; 12 hours laboratory per week.

5203-310-Nutrition (S)

2 hrs. cr.

Nutrition and diet are studied according to their relationship to dental health. Biochemistry of digestion and the utilization of nutrients is covered. The student will perform a diet analysis for a patient. Two lectures per week.

5203-320—Pharmacology (F)

2 hrs. cr.

Lectures on the sources of drugs, methods of their administration, modes of action, classification, dosage, therapeutic action, and drug interaction. Drugs affecting oral health are stressed. Two lectures per week.

5203-330—Ethics and Community Dentistry (S)

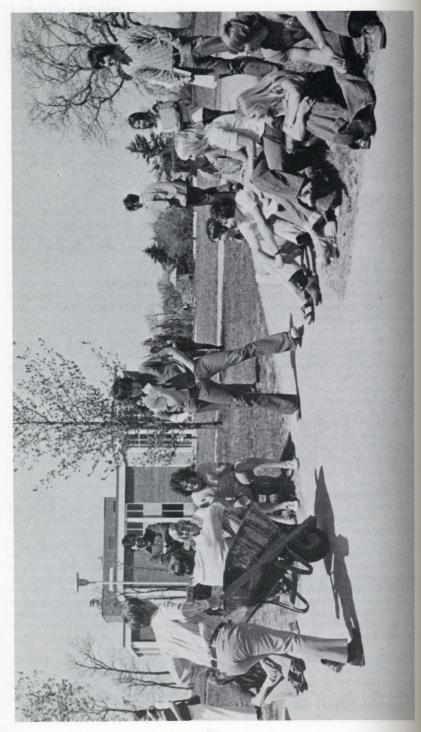
3 hrs. cr.

Study of professional ethics and commitment, professional organizations, state practice acts, and practical consideration of methods and problems associated with operating and maintaining a dental practice. The scope of public and dental public health will be defined and identified. Consideration is given to philosophy, health legislation, federal, state, and local health programs, needs and demands for dental care and mechanisms for financing dental care. Three lectures per week.

5203-390—Clinical Dental Hygiene III (S)

5 hrs. cr.

Continuation of Clinical Dental Hygiene II. Clinical experience in advanced clinical procedures, patient preventive treatment planning, diet analysis, diagnostic tests, and patient instruction. Additional experience in outside clinical facilities. One lecture; 12 hours lab per week.



DRAFTING AND DESIGN

Division of Technology

Coburn

The Drafting and Design curriculum is planned to provide students with the knowledge and skills necessary to enable them to obtain employment as draftsmen in the engineering and design departments of industry, with governmental agencies, consulting engineering firms, and architectural firms.

The Associate of Science in Drafting and Design requires the completion of the General Education Courses (see page 54) plus the following: Drafting 110, 120, 130, 200, 210, 220 and 230, Comp. 100 and Mach. 100. Electives should be selected with the assistance of the student's adviser from the areas of physical science, business and mathematics.

5304-110—Introductory Drafting (F,S)

3 hrs. cr.

An introduction to drafting, including the use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries, pictorial drawing and print making. One hour lecture and four hours laboratory per week.

5304-120—Descriptive Geometry (S)

3 hrs. cr.

Practical applications of principles to problems of geology and mining, mechanical and architectural engineering. One hour lecture and four hours laboratory per week. Prerequisite: Draf. 110.

5303-130—Machine Drafting (F)

3 hrs. cr.

Detail and assembly drawing of machines, threaded fasteners, and gears. Use of machine tools, processes and materials. One hour lecture and four hours laboratory per week. Prerequisite: Draf. 110.

5303-200—Machine Design (F)

3 hrs cr

An introduction to machine design. Advanced drafting techniques and procedures. Elements of machine design, redesigning and original problems. One hour lecture and four hours laboratory per week. Prerequisites: Draf. 120 and 130.

5303-210—Production Illustration (F,S)

3 hrs. cr.

Pictorial drawing with emphasis on application to industrial production work. Methods of mechanical illustration, exploded views, design, layout techniques. One hour lecture and four hours laboratory per week. Prerequisite: Draf. 110.

5304-220—Architectural Drafting (S)

3 hrs. cr.

An introduction to the fundamentals of architectural drafting. Instruction in the principles of design; building details and use of modern construction materials. One hour lecture and four hours laboratory per week. Prerequisite: Draf. 110.

5303-230—Surveying and Mapping (S)

3 hrs. cr.

Theory, principles, and practices of surveying and mapping as applied to construction, site and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations, site and other limited area mapping will be stressed. 1 hour lecture; 4 hours lab per week.

5304-498—Seminar in Drafting & Design (demand)

1-3 hrs. cr.

Covers specialized knowledge and skills related to new developments in Drafting & Design. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology and having the Associate Degree in Drafting & Design.

EARTH SCIENCE

(See Geology)

Earth Science certification within the BS in Education program requires 30 credit hours of sciences with 20 of those credit hours distributed among physical sciences, astronomy, and geology courses offered at the college. Studies in various other phases of earth sciences and geography are also offered. Students interested in teaching earth science should notify their faculty advisor.

ECONOMICS AND FINANCE

Division of Business Administration

P. Johnson, Larimore, Leitle, Leon, Miller, Snow

Look under General Business for requirements essential to earning a Bachelor of Science in Business Administration degree and a Bachelor of Science in Business Education degree.

The requirements for the Technology Programs leading to Certificates of Achievement and Associate of Science degrees are found on pages 158 and 164.

0517-201—Principles of Economics (Macro) (F,S)

3 hrs. cr.

A study of aggregate economic performance with emphasis on national income stabilization and growth, business cycles, monetary and fiscal policy, international trade, comparative economic systems, and current economic problems. Prerequisite: Sophomore standing or permission.

0517-202—Principles of Economics (Micro) (F,S)

3 hrs. cr.

A study of fundamental institutions of the American Economy, the theory of price determination, and the theory of income distribution. Prerequisite: Sophomore standing or permission.

0504-300—Money and Banking (F,S)

3 hrs. cr.

The constituents, nature, functions, creation, and destruction of money and credit; the monetary institutions and their functions, with special emphasis on the commercial banking system and the Federal Reserve System; introduction to monetary theory and policy. Prerequisite: Econ. 201 and 202.

0517-302—Economic Growth and Development (S)

3 hrs. cr.

Principles and problems involved in promoting development of the less mature economies, and growth in the more mature economies. Prerequisite: Econ. 201 and 202.

0517-322—Business Statistics II (See Gen. Bus. 0503-322 Bus. Statistics II.)

0504-350—Corporate Finance (F,S)

3 hrs. cr.

An examination of the financial structure of business organization, capital structure and methods of raising fixed and working capital; questions of fi-

ECONOMICS AND FINANCE

nancial policy, such as dividend policies and the conservation of surplus; comparative balance sheets and income-expense statements. Prerequisite: Econ. 201 and 202, Acct. 102.

0517-401—Microeconomic Analysis (F)

3 hrs. cr.

An analytical study of the price systems, as affecting resource allocation and other welfare questions. Prerequisite: Econ. 201 and 202.

0517-402—Macroeconomic Analysis (S)

3 hrs. cr.

Study of the determination of the levels of real and monetary aggregate economic variables. Analysis of economic aspects of government regulation and direction of business enterprise. Prerequisite: Econ. 201 and 202.

0505-411—Investments (F)

3 hrs. cr.

Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ. 350.

0517-498—Seminar in Economics and Finance (demand)

1-3 hrs. cr.

A seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

0517-499—Independent Study in Economics and Finance (demand)

1-3 hrs. cr.

Individually directed readings, research, and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission.

EDUCATION

Division of Education and Psychology

Banks, Easterday, Highland, Mason, Niess, Richardson, Sandrin Schuster, Snyder, Starkey, Steere, Wiley

Realizing the important contributions made to our society by its educational system, Missouri Southern State College has made the preparation of teachers one of the basic objectives of the institution. The College faculty supports the objective by recognizing the preparation of teachers as the responsibility of the entire College. It is fulfilled through the Council on Teacher Education which coordinates the teacher education phase of the various instructional divisions. The Department of Education has the overall responsibility for the actual administration of the Teacher Education Program.

The Teacher Education Program is based on the following basic beliefs

and assumptions:

 A teacher should be provided a broad background in general education.
 A teacher should be required to demonstrate an acceptable degree of mastery in his specialized teaching field.

3. A teacher should possess the personal qualities that can be identified

as essential for effective teaching.

 A teacher should demonstrate an understanding of the contribution education can make toward the continuation and improvement of our society.

5. A teacher should possess the professional attitudes and competencies necessary to serve the education profession effectively.

As a reflection of these beliefs and assumptions, the College seeks to achieve these aims through the Teacher Education Program.

1. To provide the graduates of high schools in the College service area with information on teaching as a profession.

To identify and attract to the program of teacher education students who possess the intellectual, personal and physical qualities necessary to become effective teachers.

 To provide a program of studies and experiences that will develop graduates capable of effectively performing their duties as teachers in the elementary or secondary schools.

4. To provide prospective teachers with a program that emphasizes the importance of the basic theories of learning in teaching.

5. To cooperate with local, state, regional, and national agencies that have as their purpose the improvement of education.

6. To aid school administrators, boards of education, and other educational organizations with problems relating to education programs.

Bachelor of Science in Education Degree

Students who are planning a career in teaching in the elementary and/or secondary school work toward the degree Bachelor of Science in Education. The satisfactory completion of the requirements for this degree qualifies a person for life certification in Missouri. Recipients of other degrees, who Education by meeting the requirements outlined by the Director of Teacher Education.

Students deciding to work toward the degree Bachelor of Science in Education must elect to major in elementary education or in one of the subject matter areas available to those seeking a secondary certificate.

Elementary Education—If preparation for teaching at the elementary school level is desired, the student may emphasize either primary or intermediate grades. Elementary majors are required, also, to select an area of concentration of 21 semester hours from art, science (biological and physical), early childhood education, mathematics, social science, language arts (English and speech), music, health and physical education, and selected areas of special education. Applicable general education course requirements may also count toward the selected area of concentration.

A student specializing in elementary education must complete these additional or specific general education courses:

1. One additional course in mathematics

Geography must be selected from Area 4, the Social and Behavioral Sciences

3. One additional course in U. S. History

4. A course in economics is strongly recommended

Candidates for the degree Bachelor of Science in Education with a major in elementary education must satisfactorily complete 33 semester hours, including the following required courses: Bio. 310, Eng. 325, Music 332, Art 220, Eng. 315 or Eng. 301, Psy. 302, HPER 311, Educ. 470, Educ. 311, Educ. 312, Educ. 340, Educ. 370; select one of the following: Educ. 403 or Educ. 404 or Educ. 420 or Educ. 405 or Speech 492.

Special Education—An area of concentration is offered in three areas of special education. Each of these programs is designed to support a major in either elementary or secondary education, preferably elementary. A major in Psychology-Special Education is also offered by the Psychology Department that leads to certification in selected special education areas for grades 1-12. Persons preparing to teach other subjects at the secondary level may also qualify for certification in any of the special education areas listed below along with their major. However, several basic elementary education courses will also need to be completed. Persons interested in such certification for teaching special education at the secondary level should check with the Department of Education for details and requirements. All persons preparing to teach in any special education area must complete supervised student teaching or a practicum in a special education setting.

The Educable Mentally Retarded Child

To certify to teach the Educable Mentally Retarded Child, the following additional courses must be satisfactorily completed: Psy. 300 and/or Psy. 301, Psy. 302, Educ. 403, Educ. 470, Speech 492, Psy. 412, Educ. 420 or Art 200, Educ. 444 and four of the following: Soc. 110, Psy. 221 or Psy. 432, Psy. 422, Psy. 382, Educ. 404, Educ. 405, Psy. 411, Psy. 471, or HPER 340. In addition, the courses Educ. 312 and Educ. 340 must be completed if not previously completed. Note: By selecting Educ. 404 and 405 certification in three areas of special education is possible.

Learning Disabilities

For certification to teach children with Learning Disabilities, the following additional courses must be satisfactorily completed: substitute Educ. 404 for 403. Psy. 411 and HPER 340 should be selected as electives. Other requirements are the same as EMR listed above.

Emotionally Disturbed Child

For certification to teach the Emotionally Disturbed Child, the following additional courses must be satisfactorily completed: substitute Educ. 405 for 404. Psy. 411 and HPER 340 should be selected as electives. Other requirements are the same as EMR listed above.

Remedial Reading

A person who completes a baccalaureate degree with a teaching major may also be certified in the field of remedial reading by satisfactorily completing the following courses: Educ. 302, Educ. 340 or Educ. 422, Educ. 470, Psy. 412, Psy. 471, Educ. 471, Educ. 472.

Secondary Education—The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization, or in two different teaching fields with a lesser degree of specialization in each. Available for secondary school teaching are:

- 1. Art
- 2. Biology
- 3. Chemistry
- 4. Business Éducation
- 5. English

- 8: Music
- 9. Physical Education
- 10. Physics
- 11. Physical Science
- 12. Psychology-Special Education

6. Spanish7. Mathematics

13. Social Science

14. Speech and Theatre

A student may elect a supporting area (a minor) from any one of the listed majors.

Únder certain circumstances, it is possible for a person to become qualified to teach art, music, or physical education at both the elementary and secondary school level. Students interested in such a program should consult the department involved.

Students interested in certification to teach **driver education** or to **coach interscholastic sports** should consult the Physical Education Department.

A student emphasizing secondary education must also complete departmental course requirements under either Plan A or Plan B.

Plan A: (Double Major)

This plan is intended for those persons who desire to qualify as teachers in two different subject matter areas. Each area requires 30 semester hours of specific course work which must meet minimum State Department of Education requirements. Plan A is not available in social science, music, or in programs preparing teachers for both elementary and secondary certification. If Plan A is selected, the second teaching field is required. Students may select an adviser in either department he chooses to major in or from the Department of Education.

Plan B: (Single Teaching Field, Comprehensive Major)

This plan is intended for the person who wishes to concentrate his teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by the department.

A person choosing a single teaching field may also earn a minor of 21 semester hours of specific course work in some other or related field, which will qualify him for a second teaching field at only the junior high school level.

Each department that prepares students for secondary school teaching has developed a program of studies to be pursued by students who choose to follow either of the above plans. Plan B is mandatory for majors in social science, music, and in certain programs preparing students for dual certification at both the elementary and secondary school level.

Advisement

Each student who enrolls at Missouri Southern State College will have an adviser assigned who will help the student plan his program of studies. A student above the sophomore level will have faculty advisers assigned by the division in which he chooses to specialize. The Division of Education advises majors in elementary education and physical education or those desiring to major in two different teaching fields at the secondary school level.

Information regarding teacher certification requirements, employment opportunities, professional education requirements, and supervised student teaching may be obtained from the Department of Education.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Admission to Missouri Southern State College does not automatically confer admission to the Teacher Education Program.

Students who plan to enter the professional education sequence and become certificated teachers are required to apply for admission to the Teacher Education Program. This application is made at the time the student is enrolled in Psychology of Human Development or during the first year of study at this college. The application form may be obtained from the Education Office. Each application is reviewed individually by the Teacher Education Admissions Committee.

In determining a student's fitness for the teaching profession, the committee considers test results, scholarship, verbal proficiency, experience with children and youth, autobiography, physical and mental health, and appropriate faculty recommendations. The minimum scholarship essential to acceptance is a cumulative grade point average of 2.2 for 55 or more

semester hours.

The Committee decisions on student applications fall into three categories: (1) Approved for admission to the teacher education program; (2) Approved on the condition that certain stated requirements be met; or (3) Advised not to continue in teacher education. The student must have acceptance into the program before he is admitted to the professional education sequence of courses.

Supervised Teaching

A second crucial point of screening in the Teacher Education program occurs when the student is ready to do supervised teaching during the "Professional Semester" of the senior year. To qualify for supervised teaching, the student must have a minimum 2.2 cumulative grade point average at the time of application and be recommended for student teaching by the major department and/or approved by the Teacher Selection Committee. The National Teachers Examination is taken by all persons that enroll in supervised teaching.

PROFESSIONAL EDUCATION

The following sequence of courses is to be completed by students planning to teach at the secondary or elementary level:

Freshman-Sophomore Year

Three or more hours of development psychology selected from Psy. 110, Psychology of Human Development; Psy. 300, Child Psychology or Psy. 301 Adolescent Psychology is required. Persons who are planning to enter teaching should choose Psy. 110 in their first year of study. Secondary School majors seeking an extended teaching certificate which will also qualify them to teach the same area in the elementary school, must have a course in child development. Any person preparing at the secondary level must have either Psy. 110, Human Development or separate courses in General Psychology and Adolescent Psychology. Educ. 200, Exploratory Field Experience, may be taken between semesters in the sophomore year by enrolling for it at the spring registration.

Junior Year

*Psy. 310 Educational Psychology	3 hrs.
Select one combination from	2
Educ. 320 Structure of Teaching, Elementary	2 hrs.
Educ. 321 Video Teaching Laboratory, Elementary	1 hr.
Or	
Educ. 330 Structure of Teaching, Secondary	2 hrs.
Educ. 331 Video Teaching Laboratory, Secondary	1 hr.
*May be taken sophomore year	

Senior Year

The "Professional Semester" occupies one complete semester. For one-half of the professional semester, the student studies five courses and during the other one-half does supervised teaching (approximately eight weeks). COURSES OUTSIDE THIS BLOCK MAY NOT BE SCHEDULED. Required courses are:

Secondary Teaching

Educ. 462 Student Teaching, Secondary

Educ. 432 Critical Issues in Education

Educ. 402 History and Philosophy of Education

Educ. 370 Intro to Instructional Media

Educ. A Course in Special Methods of Teaching in the Major Field

Select one of the following:

Psy. 412 Measurement and Evaluation

Psy. 451 Psychology of Learning

Educ. 412 Social Foundations of Curriculum

Elementary Teaching

Educ. 442 Student Teaching, Elementary

Educ. 432 Critical Issues in Education

Educ. 402 Philosophy and History of Education

Educ. 322 Methods of Teaching Social Studies in Elem. School

Educ. 370 Introduction to Instructional Media

Select one of the following:

Psy. 412 Measurement and Evaluation

Educ. 420 Introduction to Counseling

Educ. 412 Social Foundation of Curriculum Development

Combination of Elementary and Secondary Teaching

For students majoring in art, music, foreign language, physical education, or psychology-special education who desire certification at both the elementary and secondary levels, the following professional semester is recommended:*

Educ. 464 Student Teaching, Combination of Secondary and Elementary Teaching in major field

Educ. 432 Critical Issues in Education

Educ. 402 Philosophy and History of Education

Educ. Special Methods Course in Major Field

Educ. 370 Introduction to Instructional Media

Select one of the following:

Psy. 412 Measurement and Evaluation

Psy. 451 Psychology of Learning

Educ. 412 Social Foundations of Curriculum Development

*A course in Human Development or Child Psychology is required for certification for grades K-12. If Human Development is not taken, then both Adolescent and Child Psychology are required.

TEACHER CERTIFICATION BY "ACADEMIC CONTRACT"

The Missouri State Department of Education has designed a procedure whereby college graduates who did not take a prescribed teacher education program in their degree programs can meet the necessary requirements to become a certified teacher by filing an "Academic Contract" with certain approved colleges and universities. The designated college is responsible for informing the State Department of Education what credit will be needed for certification and for the recommendation to issue the teaching certificate.

An "Academic Contract" may be executed with Missouri Southern State College on the condition that the person qualifies for admission into its teacher education program and has been properly enrolled in the college. All regular graduates of the teacher education program at Missouri Southern are awarded certification upon the recommendation of the Division of

Education.

EDUCATION COURSE OFFERINGS

0817-010—Techniques of Reading (F,S)

2 hrs. cr.

A reading improvement program consisting of group and individual work, intended primarily for students needing remedial work in reading. Individual diagnostic reading tests determine student needs. (Cannot be applied to any degree.)

0801-200—Exploratory Field Experiences (S)

1 hr. cr.

Students are assigned to elementary or secondary school for a minimum of fifty-four clock hours to serve as educational aids. The course provides the opportunity for the student to explore teaching as a potential career based on actual classroom experience. A student must have earned 34 hours of college credit to be eligible for this course. Assignments, normally, are made during the break during first and second semester. Prerequisite: Psych. 110, or Psy. 300, or 301.

0811-302—The Exceptional Child (S)

2 hrs. cr.

(See Psychology 302)

0801-310—Education in American Society (demand)

2 hrs. cr.

Designed especially for the non-education major who desires a more complete knowledge of the structure, function, purposes, and operation of the American education system. The course will include such topics as school finance, legal aspects of education, controversial issues, and educational trends. Extensive use will be made of visiting speakers and field trips.

0834-311—Science in the Elementary School (F)

2 hrs. cr.

Emphasis on science in the child's environment. Development of problems, activities, and experiments. Survey and evaluation of teaching materials and laboratory equipment suitable to the elementary school. Prerequisite: Courses in biological and physical science.

0833-312—Problems of Teaching Arithmetic in Elementary Schools (See Math 312) (S)

2 hrs. cr.

Basic course in the teaching of arithmetic in the elementary grades. The application of principles of learning and techniques of presentation are considered. Prerequisite: 3 hours math.

0823-316—Introduction to Early Childhood Education (demand)

3 hrs. cr.

Students will become acquainted with programs specifically designed for early childhood. The course design will provide opportunities to observe young children in various programs to plan learning activities, and to employ these activities under the supervision of the instructor. Prerequisite: Psy. 310.

0823-319—Early Childhood Education Curriculum and Materials (demand)

3 hrs. cr.

Course is designed to provide the student of early childhood education with a background in curriculum and materials for the young child. The student will have opportunities through the practicum to observe children involved in early childhood programs and to plan and conduct a lesson with children in each of the major curriculum areas, under supervision. The course will also provide the student opportunities to construct various teaching materials for early childhood education. Prerequisite: Psy. 310.

0802-320—Structure of Teaching-Elementary (F,S)

2 hrs. cr.

An integrated course including problems relating to teaching in the elementary school. The acquisition of instructional skills and strategies to the teacher-learner situation is expected. Classroom organization and management, instruction innovations, and both verbal and non-verbal interaction skills are studied. Actual classroom participation in a public school is required. The course is team taught. Enrollment in a video-teaching lab (Educ. 321) must be concurrent. Prerequisites: Psy. 300 or 301, and Psy. 310 and G.P.A. of not less than 2.2 admitted to teacher education.

0802-321—Video Teaching Laboratory (F,S)

1 hr. cr.

A required part of Educ. 320 and must be taken concurrently with it. Short teaching episodes are prepared, taught and analyzed via video-tape. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading.)

0842-322—Teaching Social Studies in Elementary School (F,S)

2 hrs. cr.

Provides an introduction to the instructional materials and methods of teaching social studies in the Elementary School. This course is part of the Professional Semester.

0803-330—Structure of Teaching-Secondary (F,S)

2 hrs. cr.

A study of the instructional skills, strategies and techniques of teaching in the secondary school. Development of the secondary school, classroom organization and management, instructional innovations, and both verbal and non-verbal interaction are studied. Actual participation in a public school classroom and field trips are required. The course is team taught. Enrollment in a video-teaching lab (Ed. 331) must be concurrent. Prerequisites: Psy. 300 and 301, or 110 and Psy. 310 and a G.P.A. of not less than 2.2 admitted to teacher education.

0803-331—Video Teaching Laboratory (F,S)

1 hr. cr.

A required part of Educ. 330 and must be taken concurrently with it. Short teaching episodes are prepared, taught, and analyzed via video-tape recordings. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading.)

0843-332—Teaching English and Language Arts in Secondary School (F,S)

2 hrs. cr.

Provides an introduction to the instructional materials and methods of teaching English, speech and foreign language in the secondary schools. This course is part of the Professional semester.

0834-333—Teaching Science in Secondary School (F,S) 2 hrs. cr. Provides an introduction to the instructional material and methods of teaching science in secondary school. The course is a part of the Professional Semester.

0844-334—Teaching Social Science in Secondary School (F,S)

2 hrs. cr.

Provides an introduction to the instructional materials and methods of teaching social science in secondary school. The course is a part of the Professional Semester.

0832-335—Teaching Music in Secondary School (F)

Provides an introduction to the instructional materials and methods of teaching music in secondary schools. The course is part of the Professional Semester.

0838-336—Teaching Business in Secondary School (F,S)

2 hrs. cr.

Provides an introduction to the instructional materials and methods of teaching business in the secondary school. The course is part of the Professional Semester.

0831-337—Teaching Art in Secondary School (F)

Provides an introduction to the instructional materials and methods of teaching art in the secondary schools. The course is a part of the Professional Semester.

0835-338—Teaching Health and Physical Education in

Secondary School (F,S)

2 hrs. cr.

Provides an introduction to the instructional materials and methods of teaching physical education and health in the secondary schools. The course is part of the Professional Semester.

0833-339—Teaching Mathematics in Secondary School (F,S)

Provides an introduction to the instructional materials and methods of teaching mathematics in the secondary schools. The course is part of the Professional Semester.

0802-340—Language Arts and Reading in the

Elementary School (F,S)

Foundation course for development of understanding attitudes necessary to teach written and oral communication, listening and reading at the elementary

0829-370—Introduction to Instructional Media (F,S)

2 hrs. cr.

Designed to give the teacher a basic understanding of the preparation and use of the various audio-visual materials and devices, with emphasis on the preparation of such materials. Enrollment is limited to education majors. (Performance based-credit-non credit grading.)

0821-400—Philosophy and History of Education (F,S)

3 hrs. cr.

Study of educational thinking and practices from the ancient to the present. Emphasis is on relating earlier educational thought to building a personal philosophy of education. Prerequisite: Admission to Teacher Education. Offered to special students.

0821-402—Philosophy and History of Education (F,S)Study of educational thinking and practices from the ancient to the present. Emphasis is on relating earlier educational thought to building a

personal philosophy of education. Prerequisite: Admission to Teacher Education. Offered in the Professional Semester.

0810-403—Teaching the Mentally Retarded (F)

3 hrs. cr.

Designed to help the prospective or in-service teacher understand mental retardation. Attention is given to courses, diagnosis, and teaching methods especially suited to mentally retarded children. Prerequisite: Psy. 302.

0810-404—Methods of Teaching Children with Learning Disabilities (S)

3 hrs. cr.

Prepares teachers in the area of learning disabilities with particular attention to verbal communication disorders and visual motor integration problems. Diagnosis methodology techniques and media will be stressed. Prerequisite: Psy. 302.

0816-405—Methods of Teaching the Emotionally Disturbed Child (F)

3 hrs. cr.

Established a teaching rationale utilizing a completely individualized program with a variety of teaching techniques which enable the emotionally disturbed learner to profit more fully from his school experiences. Prerequisite: Psy. 302.

0829-412—Social Foundations of Curriculum Development (F,S)

Social Foundations of Curriculum and instruction as it relates to the elementary and secondary schools; consider the psychological, sociological, and philosophical basis for curriculum building. Emphasis is on social foundations. Prerequisite: Admission to Teacher Education.

0827-420—Introduction to Counseling (F)

2-3 hrs. cr.

Survey of counseling philosophies, principles and practices. Designed for the classroom teacher as well as the guidance specialist to work with both students and parents. This is a basic course in the guidance sequence. Prerequisite: Psy. 302.

0830-422—Teaching Reading in Secondary Schools (F)

2 hrs. cr.

Designed to help prospective teachers understand reading development and its part in the total school program. Required for certification of secondary teachers of English in Missouri.

0827-432—Critical Issues in Education (F,S)

2-3 hrs. cr.

Current problems in the area of education are explored, with special regard to legal and professional role of school personnel, their relationship to federal and state governments, and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents, and the community. Prerequisite: Admission to Teacher Education. Offered in the Professional Semester.

0802-442—Student Teaching-Elementary (F,S)

6 hrs. cr.

Participation, under supervision, in teaching on the elementary level in an offcampus school. Prerequisites: 88 semester hours with a grade point average of 2.2, admission to the program of teacher education, and Educ. 320. Course assignments will include full-time supervised teaching for one-half of the semester. Students whose last names begin with the letters A-L should plan to enroll in first semester; M-Z in second semester. Conferences are scheduled as needed. Specific assignment is made by the Department of Education. Arrangements for assignment are to be made in semester preceding the actual student teaching block. 0802-443—Student Teaching—Elementary (F,S)

3 hrs. cr.

Participation, under supervision, on the elementary level in an off-campus school. Curriculum participation and observation consists of 15 hours per week for one half semester. Prerequisite: See Educ. 442. Arrangements for assignment should be made in semester preceding the actual student teaching block.

0802-444—Student Teaching—Special Education (F,S)

3-6 hrs. cr.

This course in which the trainee student teaches the handicapped child shall immediately follow Educ. 442 or 462 or 464. Prerequisite: See Educ. 442. Course assignment to consist of a minimum of 5 hours a week of student teaching for each one hour of credit, per one-half semester. Conferences will be scheduled as needed. Specific assignment is made by Department of Education.

0803-462—Student Teaching-Secondary (F,S)

6 hrs. cr.

Participation, under supervision, in teaching on the secondary level in an off-campus school. Curriculum, materials and methods integrated with student teaching. Prerequisite: Educ. 330 or equivalent, fifteen semester hours in teaching field, and a minimum of 88 semester hours with a grade point average of 2.2. Assignment to consist of full-time teaching for one-half semester with professional courses to be taken during the other half of semester. Students whose last names begin with the letters A-L should plan to enroll in first semester; M-Z in second semester. Conferences are scheduled as needed. Specific assignment is made by Department of Education.

0803-463—Student Teaching-Secondary (F,S)

6 hrs. cr.

Participation, under supervision, in teaching on the secondary level in an off-campus school. Curriculum, materials, and methods integrated with student teaching. Prerequisites: See Educ. 462. Assignment to consist of daily three-hour block of time during a regular semester.

0803-464—Student Teaching-Combination (F,S)

3-6 hrs. cr.

Participation, under supervision, in teaching on the secondary and elementary levels in an off-campus school. Intended for those students in specialized area such as Art, Music, Psychology-Special Education, and Physical Education who are preparing to be certified for teaching their specialty at both levels. Curriculum, materials and methods integrated with teaching participation and observation. Assignments consist of a minimum five hours per week of participation and conferences for each hour of credit for one-half the semester. Specific assignments are made by Department of Education.

0830-470—Techniques of Diagnostic and Remedial Instruction in Reading (S)

5 hrs. cr.

A study of devices and techniques for diagnosis of reading disabilities and presentation of suggested remedial measures and methods of reducing deficiencies. Practical applications and laboratory experience will be emphasized. Special emphasis upon intermediate and secondary school reading problems. Prerequisite: Educ. 340 or 422.

0830-471—Practicum in Diagnosis of Reading Difficulties (F)

3 hrs. cr.

Practice of administering, interpreting, and reporting of diagnostic test results of reading difficulties. Prerequisites: A methods course in the teaching of reading (Education 340 or Education 422), A Methods course in the analysis and correction of reading problems (Education 470), and a course in individual intelligence tests (Psychology 471).

0830-472—Practicum in Remediation of Reading Difficulties (S)

3 hrs. cr.

Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: A Methods Course in Teaching (Education 340 or Education 422), A Methods Course in the Analysis of Correction of Reading Problems (Education 470), and a course in Individual Intelligence Tests (Psychology 471), and Education 471.

0899-498—Seminar in Problems of Education (demand)

1-3 hrs. cr.

A seminar for upper division majors only. The seminar meets regularly each week. Meeting is equal to number of credit hours determined by the department for a given semester. The course is designed to cover specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

0899-499—Independent Study (F,S)

1-3 hrs. cr.

An independent study course structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field. Registration in the course must be approved by adviser and department head.

ENGLISH

Department of Language and Literature

Blevins, Couch, Denniston, Dinges, Gardner, Greenlee Harder, Headlee, Lambert, Mitchell, Morgan, Preble, Short, Slanina, Wolfe

A major for the Bachelor of Arts degree consists of 42 semester hours (above freshmen composition) and must include Eng. 271, Eng. 272, Eng. 311, Eng. 312, either Eng. 301 or Eng. 400, and either Eng. 216 or Eng. 315.

English may be used as a minor or supporting area with certain majors. A minor consists of 21 semester hours (above freshman composition) and shall include 12 upper division hours. The student shall select the courses in consultation with an English advisor.

A major for the Bachelor of Science in Education degree with one teaching field (Plan B) consists of 42 semester hours of English (above freshman composition) and Education 422. Required English courses are Eng. 271, Eng. 272, Eng. 311, Eng. 312, Eng. 315, Eng. 319, either Eng. 301 or Eng. 400, either Eng. 450 or Eng. 451; one course from Eng. 410, Eng. 415, Eng. 420; one course from Eng. 425, Eng. 430, Eng. 435; one course from Eng. 345, Eng. 360, Eng. 370, Eng. 380.

A major for the Bachelor of Science in Education degree as one of two teaching fields (Plan A) consists of 30 semester hours of English (above freshman composition) and Education 422. Required English courses are Eng. 271, Eng. 272, Eng. 311, Eng. 312, Eng. 315; either Eng. 301 or Eng. 400; either Eng. 450 or Eng. 451.

English 101 is a prerequisite to all literature courses except Eng. 180 and Eng. 181. A lower division literature course is prerequisite to all upper division literature courses except Eng. 311 and Eng. 312.

1501-100—Composition (F)

5 hrs cr

A course designed for students whose placement scores indicate a need for special help and individual attention. Successful completion of this course

satisfies part of the composition requirement for the baccalaureate degree and permits the student to enroll in English 102. It is strongly recommended that any student who completes the course with a D enroll in English 101 before attempting English 102.

1501-101—Composition (F,S)

3 hrs. cr.

A study of the principles of effective writing based largely upon expository prose models. Students demonstrating exceptional ability may be permitted to substitute English 111.

1501-102—Composition (F,S)

Bhrs. cr

Develops reading comprehension through a study of various types of literature and offers practice in expository writing. Prerequisite: Eng. 101.

1501-111—Composition (F)

3 hrs. cr.

A special composition and literature course for freshmen demonstrating exceptional proficiency on placement tests. With a grade of C or better in English 111, a student automatically receives three hours credit for English 101, thereby satisfying the six-hour composition requirement. He enriches his 124-hour graduation program by enrolling for a course in another area in lieu of a second freshman composition course. Should he receive a D in English 111, however, he must take English 102.

1503-180—Masterpieces of World Literature (F,S)

3 hrs. cr

Selected masterpieces of world literature through the Renaissance, except British literature. (Formerly Eng. 120.)

1503-181—Masterpieces of World Literature (F,S)

3 hrs. cr

Selected masterpieces of world literature from the Renaissance to the present except British literature. (Formerly Eng. 130.)

1507-216—Creative Writing (S)

3 hrs. cr.

Experimental writing in prose, poetry, and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 102.

1502-271—English Literature (F,S)

3 hrs. cr.

Survey of English Literature to the Romantic Movement. Prerequisite: English 101. (Formerly Eng. 210.)

1502-272—English Literature (F,S)

3 hrs. cr.

Survey of English Literature from the Romantic Movement to the present. Prerequisite: English 101. (Formerly Eng. 220.)

1501-301—Modern Grammar (F,S)

3 hrs. cr.

An investigation of current grammatical studies of modern English structure and usage, emphasizing transformational generative grammar.

1502-311—American Literature (F,S)

3 hrs. cr.

A survey of American literature to the Civil War.

1502-312—American Literature (F,S)

3 hrs. cr.

A survey of American literature beginning with the Civil War.

1501-315—Exposition (F,S)

3 hrs. cr.

A study of the techniques of factual writing and the writing of non-fiction. Recommended for all students especially those entering professional schools. Prerequisite: Six hours composition.

1501-319—Composition for Teachers (S)

3 hrs. cr.

Designed to aid the prospective teacher of English in formulating principles of composition, in discovering techniques of application, and in correlating the principles of grammar with the teaching of composition in the secondary school.

1502-325—Children's Literature (F,S)

3 hrs. cr.

A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in elementary school. (Formerly Eng. 231.)

1502-330—Literature for Adolescents (F)

An extensive reading course for secondary education students, including some evaluation of literature for adolescents and its presentation in the secondary school. (Formerly Eng. 231.)

1502-340—Black American Literature (S)

3 hrs. cr.

All representative literary genres illustrating the growth of Black American literature. Prerequisite: English 101. (Formerly Eng. 232.)

1502-345—The American Novel (F)

3 hrs. cr.

A study of representative American novels. (Formerly English 342.)

1502-350—Recent American Literature (S)

3 hrs. cr.

A study of the major movements in American literature since World War II.

1502-360—Twentieth Century Drama (F)

Plays in English from Shaw to the present, with selected readings in European playwrights. (Formerly Eng. 322.)

1502-370—Twentieth Century Poetry (F)

3 hrs. cr.

Representative Poetry from Yeats to the present. (Formerly Eng. 481.)

1502-380—The English Novel (S)

3 hrs. cr.

Representative English Novels from 1700 to the present. (Formerly Eng. 381.)

1502-400—History of the English Language (S)

3 hrs. cr.

An examination of the ancestors of English and the effect of other languages, peoples, and cultures upon its development. An investigation of the phonology, morphology, syntax and usage of the language throughout its history. (Formerly Eng. 310.)

1502-410—Medieval English Literature (F)

3 hrs. cr.

Literature of England in the Anglo-Saxon and Middle English period. Emphasis upon Chaucer. Prerequisite: Eng. 271. (Formerly Eng. 431.)

1502-415—Renaissance and Restoration Non-dramatic Literature (F) 3 hrs. cr. Study of English poetry and prose from 1500 to 1700. Prerequisite: English 271.

1502-420—Renaissance and Restoration Drama (S)

3 hrs. cr.

Study of English drama from 1500 to 1700 (excluding Shakespeare) with emphasis on the Elizabethan and Jacobean theatre. Prerequisite: English 271.

1502-425—Eighteenth Century English Literature (S)

3 hrs. cr.

The enlightenment and the decline of neoclassicism in literature from 1700 to 1785, Pope to Johnson. Prerequisite: Eng. 271. (Formerly Eng. 421.)

1502-430—The Romantic Period (F)

3 hrs. cr.

Representative authors and literary tendencies. Prerequisite: Eng. 272. (Formerly Eng. 361.)

1502-435—The Victorian Period (S)

3 hrs. cr.

Representative authors and literary tendencies. Prerequisite: Eng. 272 (Formerly Eng. 371.)

1502-450—Shakespeare (F)

3 hrs. cr.

A study of selected histories, early comedies, and sonnets. Prerequisite: Eng. 271. (Formerly Eng. 331.)

1502-451—Shakespeare (S)

3 hrs. cr.

A study of selected tragedies and late comedies. Prerequisite: Eng. 271. (Formerly Eng. 332.)

1502-455—Milton (On demand)

3 hrs. cr.

A study of the poetry and major prose. Prerequisite: Eng. 271. (Formerly Eng. 432.)

1599-498—Explorations in Literature (S)

3 hrs. cr.

Seminar on literature for advanced majors. Topic open.

1599-499—Independent Study (F,S)

1-3 hrs. cr.

Individually directed study in selected areas for advanced majors. Prerequisite: a grade point average of 3.0 in English Registration must be approved by adviser, department head and division dean.

ENVIRONMENTAL HEALTH TECHNOLOGY

Division of Technology

G. Flick

The college offers the Bachelor of Science in Environmental Health Technology. This program is described in the section on combined/affiliated Degree Programs, and the BS EHT suggested plan of study is listed in the back of this catalog. The program is accomplished through a cooperative course of study with an internationally known environmental technical school located at Neosho, Mo., 25 miles from MSSC.

FOREIGN LANGUAGES

Division of Arts and Sciences

Department of Language and Literature

Bodon, Carney, Colon

The Department of Foreign Languages offers a full curriculum of courses in Spanish, with supporting courses in French and German. A language laboratory is used in all beginning courses.

A major for the Bachelor of Arts degree in Spanish consists of 40 semester hours and includes the same courses as for the Bachelor of Science in Education degree in the following paragraph.

A major for the Bachelor of Science in Education degree with Spanish as the single teaching field (Plan B) consists of 40 semester hours. The required courses are Span. 101-102, Span. 201, Span. 202, Span. 301, Span. 302, Span. 321, 322, Span. 332, Span. 421, Span. 431, and Span. 434.

A major for the Bachelor of Science in Education degree with Spanish as one of two teaching fields (Plan A) consists of 31 semester hours. The required courses are Span. 101-102, Span. 201, Span. 202, Span. 301, Span.

302, and one course out of Span. 321, 322 or 332.

A minor in Spanish consists of 21 semester hours (not adequate for a teaching certificate in the language unless one has a major in another language) and includes Spanish 101-102, Span. 201, Span. 202, one course of Span. 301 or 302, and one course out of Span. 321, 322, or 332.

FRENCH

1102-101—Beginning French (F)

5 hrs. cr.

Conversation, pronunciation, essentials of grammar and diction. Language laboratory required.

1102-102—Intermediate French (S)

5 hrs. cr.

Spoken language, vocabulary building, pronunciation proficiency and grammar essentials. Language laboratory required.

1102-201—Readings in French Literature (F)

3 hrs. cr.

Intermediate reading. Discussion of literature in French. Emphasis on vocabulary building. Grammar review. Prerequisite: Fren. 102 or equivalent.

1102-202—Advanced Readings in French Literature (S)

3 hrs. cr.

Representative works read and discussed in French. Short stories, a novel and poetry. Prerequisite: Fren. 201 or equivalent.

1102-301—French Composition (F)

3 hrs. cr.

Practice in writing French accompanied by a thorough study of grammar and syntax. Prerequisite: Fren. 202 or equivalent.

1102-302—Advanced French Composition (S)

3 hrs. cr.

Practice in writing French compositions. Thorough study of grammar, syntax, and idiomatic expressions. Prerequisite: Fren. 301.

1102-321—Survey of French Literature (On demand)

3 hrs. cr.

Study of French Literature from its origins through the seventeenth century. Prerequisite: Fren. 302 or equivalent.

1102-322—Survey of French Literature (On demand)

3 hrs. cr.

French Literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Fren. 321.

GERMAN

1103-101—Beginning German (S)

5 hrs. c

Stresses conversation, pronunciation, essentials of grammar and diction. Language laboratory required.

1103-102—Intermediate German (F)

5 hrs cr

Stresses spoken language, vocabulary building, pronunciation proficiency and grammar essentials. Language laboratory required.

FOREIGN LANGUAGE

1102-201—Readings in German Literature (F)

3 hrs. cr.

Intermediate reading. Discussion of literature in German. Emphasis on vocabulary building. Grammar review. Prerequisite: Ger. 102 or equivalent.

1103-202—Advanced Readings in German Literature (S)

3 hrs. cr.

Representative works are read and discussed in German with emphasis on conversation, syntax and literary significance. Prerequisite: Ger. 201 or equivalent.

SPANISH

1105-101—Beginning Spanish (F,S)

5 hrs. cr.

Conversation and reading and writing. Pronunciation proficiency and grammar essentials. Conducted in Spanish as far as practicable. Language Laboratory required.

1105-102—Beginning Spanish (F,S)

5 hrs. cr.

Continuation of 101.

1105-201—Intermediate Readings and Conversation (F,S) 3 hrs. cr. Reading and discussion of literature. Emphasis is on vocabulary building and grammar review.

1105-202—Introduction to Spanish Literature (F,S)

3 hrs. cr.

Representative works are read and discussed in Spanish with emphasis on conversation, syntax, and literary significance. Prerequisite: Span. 201.

1105-301—Spanish Composition (F)

3 hrs. cr.

Practice in writing Spanish accompanied by a thorough study of grammar and syntax. Prerequisite: Span. 202.

1105-302—Advanced Spanish Composition (S)

3 hrs. cr.

Practice in writing Spanish accompanied by thorough study of grammar and syntax with emphasis on subtle elements of idiomatic usage. Prerequisite: Span. 301.

1105-321—Survey of Spanish Literature (F)

3 hrs. cr.

The literary background and important writers from the origin of Spanish literature to 1700. Representative works are read and discussed critically, with written and oral reports. Prerequisite: Span. 202.

1105-322—Survey of Spanish Literature (S)

3 hrs. ci

The literary background and important writers from 1700 to the present. Prerequisite: Span. 202.

1105-332—Introduction to Spanish American Literature (S)

3 hrs. cr.

Representative works of poetry, short story and essay are read and discussed. Prerequisite: Span. 301, 302.

1105-421—Nineteenth Century Spanish Novel (F,Odd)

3 hrs. cr.

The Spanish novel as an art form, exemplified by selected works by such writers as Alarcon, Valera, Pereda, Galdos, Pardo-Bazan, Palacio Valdes, and Blasco Ibanez. Prerequisite: Span. 322.

1105-431—Don Quixote (S)

3 hrs. cr.

The source, structure, characters, language and style of Cervantes' masterpiece. Prerequisite: Span. 321.

1105-434—The Spanish American Novel (F, Even)

3 hrs. cr.

Origin and development of the Spanish American Novel, its political, social, geographical and literary influence. Prerequisite: 20 hours of Spanish.

GENERAL SCIENCE

Certification for teaching general science at the 7-12 grade levels is obtainable at MSSC. Students preparing for a BS in Education with majors in Biology, Chemistry, Physics, or Physical Science should include at least four credit hours of geology in their program. General science as a second teaching field for other majors requires 21 credit hours in science with at least four credit hours in geology. Additional courses in biology (8 hours), chemistry (5 hours), and physics (5 hours) are likewise required. Students with this option in mind should notify their faculty advisor.

GEOGRAPHY

Division of Arts and Sciences

Department of Social Science

Gockel (Emeritus), Smith

2206-211—Regions and Nations (F,S)

3 hrs. cr.

A survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

2206-311—Political Geography (S,Odd)

3 hrs cr

A study of the geographic factors which have influenced international relations and the policies of nations as political units. Geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity will be emphasized.

2206-322—Economic Geography (F,Even)

3 hrs. cr.

A study of world commodities and the geographic factors which affect their production and make them significant to the world economy.

2206-412—Geography of Latin America (F,Odd)

3 hrs. cr.

A study of the physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands with special emphasis on current problems and relations with the United States.

2206-422—Geography of the United States and Canada (demand)

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A geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.

2206-498—Seminar in Geography (On demand)

1-3 hrs. cr.

The study and analysis of selected topics in regional, urban-economic, cultural or physical geography. Prerequisite: Regions and Nations (Geog. 211) or the consent of the instructor.



GEOLOGY

Division of Arts and Sciences

Elick

1914-110—Introduction to Geology (S)

5 hrs. cr.

The materials of the earth and those forces producing physiographic changes. Three lectures and two, 2-hour laboratory for field trips a week.

1914-300—Earth Environments (demand)

4 hrs. cr.

A course describing aspects of the solid earth, the liquid environments of earth and our atmosphere. Interactions of these and their relationships to human society will also be discussed. Prerequisite: Physics 100.

1914-320—Historical Geology (demand)

4 hrs. cr.

A comprehensive study of the history of the earth, the fossil record, and physical features resultant from earth dynamics of the past. Prerequisites: Physics 100, Geology 110.

1914-498—Studies in Geology (On demand)

1-3 hrs. cr.

A seminar for upper division students only. The class will meet regularly a minimum number of hours each week equal to the number of credit hours. The course is designed to give specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: junior standing, Geol. 110 and a minimum GPA of 2.5 in 8 hours of biology and 8 hours of chemistry. Permission of the instructor required.

1914-499—Problems in Geology (On demand)

1-3 hrs. cr.

Consists of individual work under the supervision of a staff member with the credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: a minimum G.P.A. of 3.0 in 20 hours of science, Geol. 110, and a proven past interest in geology.

HEALTH FACILITIES ADMINISTRATION

Division of Technology

Courses in this field are designed to give individuals currently in management or supervisory positions in health care facilities, or those individuals planning to attain such positions, an insight into the applications of the principles of Administration and Management techniques to these institutions.

5218-200—Health Facilities Administration and Management (demand)

3 hrs. cr.

The principles and practice of the administration of health facilities. Includes a study of the various types of facilities and their relation to each other and problems of administration and management unique to such facilities. Three one-hour lectures per week.

5218-210—The Administration and Management of the Long-Term Care Facility (demand)

3 hrs co

The problems unique to the long-term care facility including responsibilities for patient welfare, the relation to other health care facilities and to governmental agencies of various levels. Prerequisite HA 200 or consent of the instructor. Three one-hour lectures per week.

HISTORY

Division of Arts and Sciences

Department of Social Science

Cooper, Holman, Hughes, Markman, Renner, Schafer, Smith

Students who plan to do graduate study after completing the baccalaureate degree and/or who plan to enter government or community service will want to take the Bachelor of Arts degree. A history major for this degree consists of 30 semester hours. The requirements are: Hist. 110, Hist. 120, Hist. 200, Hist. 205 or 210, 6 upper division semester hours in United States History, 6 upper division semester hours in European History and 6 upper division hours in history electives.

History may also be used as a minor or supporting area with certain majors. The requirements are 21 semester hours: Hist. 110, Hist. 120, Hist.

200, Hist. 205 or 210 and 9 upper division hours in history.

A social science major for the Bachelor of Science in Education degree, with an emphasis in history, consists of 49 semester hours. (Plan B must be followed with this major, see Education, page 93.) The requirements are: Hist. 110, Hist. 120, Hist. 205 or 210, PSc. 120, 6 upper division semester hours in United States History, 6 upper division hours in European History and 6 upper division semester hours in history electives. For the remaining 16 hours the candidate will choose Econ. 201 and at least one course in political science, one course in sociology and two courses in geography. See page 93 for teacher education requirements.

2205-110—United States History 1492-1877 (F,S)

3 hrs. cr.

A survey of the United States from the "Age of Discovery and Exploration" through reconstruction.

2205-120—United States History 1877 to the Present (F,S)

3 hrs. cr.

A continuation of course 110. This course surveys the economic, social and political development of the United States from 1877 to the present.

2205-200—Western Civilization to 1500 (F,S)

3 hrs. cr.

A survey of the development and progress of western civilization from prehistoric times through 1500. The course surveys the contributions of the early peoples to civilization as well as feudalism, the Church, the crusades and the Renaissance.

2205-205—Europe 1500 to 1815 (F)

3 hrs. cr.

A survey study of Europe from the Renaissance and the Reformation to Waterloo. Emphasis is placed on the origin and development of the modern states system after 1500 as well as the social and cultural developments of the era. (Formerly 201.)

2205-210—Europe 1815 to the Present (S)

3 hrs. cr.

A survey study of Europe in the 19th and 20th centuries. Emphasis is placed on political, social and economic developments accelerating the growth of liberalism, nationalism and imperialism. (Formerly 202.)

2205-300—Ancient History (S,Odd)

3 hrs. cr.

A study of ancient times from the prehistoric period to the end of the Roman Empire. Special consideration is given to the Ancient Empires and their contributions to literature, art, religion and science against a political, economic and social background. Prerequisite: Hist. 200, 205 or 210. (Formerly Hist. 321.)

2205-305—United States Social and Intellectual History (F,Odd)

3 hrs. cr.

A study of ideas that have influenced the intellectual, cultural and social aspects of United States History from colonial times to 1877. Prerequisite: Hist, 110. (Formerly Hist, 301.)

2205-310—United States Social and Intellectual History (S, Even)

3 hrs. cr.

A continuation of History 305. A study of the society and ideas of the United States during the period of its great industrial expansion and emergence as a major world power. Prerequisite: Hist. 110 or 120. (Formerly Hist. 302.)

2205-315—Economic History of the United States (F)

3 hrs. cr.

A study of the development of the American Economy and its related institutions from the early national period to the present. Prerequisite: Hist. 110 or 120. (Formerly Hist. 331.)

2205-320—Medieval History (S, Even)

3 hrs. cr.

A study of Europe from the end of the Roman Empire to 1500. Emphasis is placed on the significant historical aspects of the medieval period such as feudalism, the Church, the Crusades and the Renaissance. Prerequisite: Hist. 200, 205 or 210. (Formerly Hist, 322.)

2205-325—The American Frontier (F,Odd)

3 hrs. cr.

The westward expansion of the United States and its effects upon the social, political and economic institutions until the close of the frontier in 1890. Prerequisite: Hist. 110 or 120. (Formerly Hist. 341.)

2205-335—Diplomatic History of the United States to 1900 (F,Odd)

3 hrs. cr. A study of the diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900. Prerequisite: Hist. 110 or 120. (Formerly Hist. 381.)

2205-340—Twentieth Century Diplomacy (S,Odd)

A historical investigation of United States diplomacy and the world of our time. The course emphasizes the increasing importance of the United States in World Affairs since it became a world power. Prerequisite: Hist. 110 or 120. (Formerly Hist. 382.)

2205-345—Age of Jefferson and Jackson (F, Even)

3 hrs. cr.

The course will concentrate on early political development in the United States. It will trace the evolution of the presidency over the first years of the new government studying the triumph of Jeffersonian ideas, social threads in the period, and the rise of nationalism. Prerequisites: Hist. 110 or 120.

2205-350—Civil War and Reconstruction (On demand)

A study of the causes of the Civil War, slavery, and reform movements before the Civil War. Students will trace the development of Reconstruction, rise of the "Solid South," and political developments of the era. Prerequisites: Hist, 110 or 120.

2205-355—The South (S,Odd)

3 hrs. cr.

A survey of the social, economic, political, and intellectual history of the southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

2205-360—History of Missouri (S,Odd)

3 hrs. cr.

A study of Missouri's growth from its early settlement to the present. Emphasis is placed upon political, economic, institutional, and social development. Prerequisites: Hist. 110 or 120.

2205-365—The English Colonies in America (F, Even)

3 hrs. cr.

A study of the progress and development of the English Colonies from 1492 to 1776. Emphasis is placed on the extension of English social, political and economic institution as a background for the American Revolution. Prerequisite: Hist. 110. (Formerly Hist. 361.)

2205-370—Europe Since 1919 (S,Odd)

3 hrs. cr.

The aftermath of World Wars I and II in Europe. Emphasis is placed on the formation of the League, collective security, a study of the totalitarian systems, the United Nations and current problems of world peace. Prerequisite: Hist. 200. (Formerly Hist. 352.)

2205-375—English History to 1660 (F,Even)

3 hrs. cr.

A survey of the rise and development of the English people from the Roman conquest to the Stuart Restoration. Emphasis is placed upon English Constitutional development and related institutions. Prerequisite: Hist. 200. (Formerly Hist. 371.)

2205-380—English History from 1660 (S,Odd)

3 hrs. cr.

A continuation of History 375. This is a survey of English History from the Restoration to the Present. Attention is placed on the development of the cabinet system and the emergence of modern political democracy. Prerequisite: Hist. 200. (Formerly Hist. 372.)

2205-385—History of Russia and the Soviet Union (F,Odd)

3 hrs. cr.

A survey approach to the history of Russia from pre-Tsarist times to the present. Emphasis will be placed on the land and the people, national characteristics, political institutions. The Nineteenth and Twentieth centuries will be given special consideration. Prerequisite: Hist. 110 or 120; 200, 205, or 210.

2205-390—History of Germany (S,Odd)

3 hrs. cr.

A survey approach to the social, political, military, and economic history of Germany, with major concentration on the post 1519 period. Emphasis will be placed on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich, and post World War II Germany. Prerequisites: Hist. 110 or 120; 200, 205, or 210.

2205-405—The United States 1870-1920 (F,Odd)

3 hrs. cr.

A study of the United States at the turn of the century. The impact of the industrial revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I. Prerequisite: Hist. 110 or 120. (Formerly Hist. 451.)

2205-410—The United States Since 1920 (S, Even)

3 hrs. cr.

A study of the impact of politics, diplomacy and industrial development of the United States during the five decades since 1920. Prerequisite: Hist. 110 or 120. (Formerly Hist. 452.)

2205-415—History of China (F, Even)

3 hrs. cr.

A survey of modern China. Special emphasis is placed on Chinese society, political developments and relations with the west in the 19th and 20th centuries. Prerequisites: Hist. 110 or 120. (Formerly Hist. 481.)

2205-420—United States Constitutional History (S, Even)

3 hrs. cr.

A study of the growth and development of the United States Constitution from 1787 to the present. Prerequisite: Hist. 110 or 120. (Formerly Hist. 462.)

2205-425—The Renaissance and the Reformation 1300-1650 (On demand) 3 hrs. cr.

A study of the political, economic, religious and social development of Europe from the Crusades through the Reformation. The course reviews early European society and institutions and traces the replacements of these by the modern state system and capitalism and the reformation of the Church. Prerequisite: Hist. 200, 205, or 210. (Formerly Hist. 431.)

2205-430—History of Japan (S, Even)

3 hrs. cr.

A survey of modern Japan. The course traces Japan's history from the middle of the 19th century to the present. Special attention is given to the development of Japan and the world reaction to it as it came into contact with western culture. Prerequisite: Hist. 200, 205 or 210. (Formerly Hist. 482.)

2205-435—The Era of the French Revolution and Napoleon (F, Even) 3 hrs. cr.

A study of Europe during the period of revolution and reaction, 1789-1815. Emphasis is placed on the French Revolution, the rise and fall of Napoleon and their manifestations for the future. Prerequisite: Hist. 200, 205, or 210. (Formerly Hist. 491.)

2205-440—European Intellectual History (S, Even)

3 hrs. cr.

A study of the intellectual, cultural and social occurrences in Europe from the Italian Renaissance to the French Revolution. Emphasis is placed on the Age of Enlightenment, significant effects of the French Revolution, Nationalism, Socialism, and mass warfare upon European civilization in the 19th and 20th centuries. Prerequisite: Hist. 200, 205 or 210.

2205-450—English Constitutional History (demand)

3 hrs. cr.

The development of English political and legal institutions with emphasis on the Anglo-Norman background, the rise of parliament, Tudor absolutism, the Stuart period of revolution, development of the Cabinet, nineteenth century democratization, and evaluations resulting from the crisis of the Twentieth Century. (Formerly Hist. 461.)

2205-498—Seminar in History (demand)

3 hrs. cr.

A seminar for upper division social science majors. The topics and methods covered in the seminar will be those not included in other courses. Emphasis will be placed upon the individual student's ability to research, assimilate, and present new areas of knowledge. Permission of the instructor is required.

2205-499—Independent Study (F,S)

1-3 hrs. cr.

An independent study course structured by the adviser with the approval of the department head and Division chairman. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Registration in the course must be approved by the department head and division dean.

JOURNALISM

Division of Arts and Sciences
Department of Language and Literature

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The journalism program provides training for the student desiring to work

in the communications media, for the education major who will advise newspaper and yearbook staffs, and for the student who plans to transfer to a school of journalism. While pursuing a bachelor's degree at Missouri Southern, a student may accumulate 25 hours in journalism. The education major can qualify for state certification. The student headed for a journalism school can test his interest in a career in this field by enrolling in a course or two and by working on the college newspaper, The Chart.

To receive the Bachelor of Arts degree with a major in English and a minor in journalism, the student must complete the English major requirements and 21 hours in the supportive area of journalism, as approved by the

Division Chairman.

To receive the Bachelor of Science in Education degree with a major in English and certification in journalism, the student must complete the requirements for a major in English and accumulate 15 hours in the supportive

area of journalism, as approved by the Division Chairman.

Students expecting admission to a school of journalism their junior year should follow the schedule recommended for the freshman and sophomore years of candidates for a Bachelor of Arts degree with a major in English. They must have 13 hours in one foreign language and principles of economics.

0602-111—News Writing (F,S)

3 hrs. cr.

A study of news of some complexity; editing, copy reading and proofreading. Practical work on the college newspaper, The Chart.

0602-121—Mass Communications (F)

A study of the history and development of the mass communications industry and its role in the political, social and economic life of the present. Brief study of the professional requirements and vocational opportunities in the field of journalism.

0602-220—Practical Journalism (F,S)

(Per sem) 1 hr. cr.

Application of journalistic principles to the college newspaper or the college yearbook. One hour of credit each term for a maximum of three terms. Prerequisite: Jour. 111 or consent of instructor.

0602-231—Feature Writing (F)

Advanced courses in writing special articles for newspapers and magazines. Practical work on college publications. Prerequisite: Jour. 111 or consent of instructor.

0602-232—Editing and Editorial Writing (S)

Principles of copy reading and editing. An analysis of editorials appearing in responsible publications and the writing of editorials of some maturity.

0603-241—Radio and Television News Writing (S)

Techniques of preparing radio and television newscasts, including reporting, writing, editing, and illustrating newscasts. Prerequisite: Jour. 111, Speech 102.

0602-302—Photo-Journalism (F)

Theory and practice of photo-journalism. Study of technical and communications aspects of photography and their application to news media. Prerequisite: Jour. 111.

0602-312—Publication Principles (S)

2 hrs. cr.

Editorial and production practices of trade journals and publications of church, school and business. Special emphasis on high school newspapers and yearbooks.

0602-320—Promotional Strategy (F,S)

(See Marketing and Management, 0509-401)

3 hrs. cr.

LAW ENFORCEMENT

Division of Technology

Mosher, Seneker, Spurlin, Terry, Whittle

The Associate of Science degree in Law Enforcement prepares students for entrance into police work, a field which has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

Many law enforcement agencies have specific requirements regarding minimum age, height, weight, vision and other related requisites. Students interested in this field should check with appropriate agencies regarding their requirements. Students considering a major in this field should schedule a conference with the Director of Law Enforcement Programs before enrolling.

The Associate of Science in Law Enforcement requires the completion of the general education courses (see page 54) plus the following: PSc 120, Soc. 110, 210, 351, 412, Psy. 100, HPER 220, LE 100, 110, 150, 190, 200, 210, 250, and 290. Electives should be selected, with advisor approval, from the fields of literature or science.

5505-100—Introduction to Law Enforcement (F,S)

3 hrs. cr.

Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

5505-110—Police Organization and Administration (F)

2 hrs. cr.

Management operations, communications, budgeting, recruiting, training and public relations as they pertain to the local and state law enforcement agencies.

5505-150—Interview and Report Writing (S)

2 hrs. cr.

The techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

5505-190—Supervised Police Work (Summer)

6 hrs. cr.

The student spends a specific amount of time in the local police department, the local sheriff's department, and with other area agencies learning the standard line activities. The purpose is to introduce the student to the actual duties of law enforcement officers. Prerequisite: LE 100, LE 110, LE 150.

5505-200—Criminal Investigations (F)

3 hrs. cr.

Fundamentals of criminal investigation techniques including crime scene procedures, burglary, and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

5505-210—Criminal Procedures (F)

3 hrs cr

Criminal law procedures from arrest through trial. Search and seizure, laws of evidence, review of pertinent supreme court decisions and related topics. The order of criminal trial.

5505-250—Criminal Law (S)

3 hrs. cr.

Criminal law purposes and functions; laws concerning arrest, search, and seizure. Rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

LAW ENFORCEMENT

5505-290—Police Supervision and Management (S)

3 hrs. cr.

Principles of personnel management as applied to law enforcement agencies; evaluation, promotion, discipline, training, employee welfare, and problem-solving leadership.

5505-498—Seminar in Law Enforcement Topics (demand)

3 hrs. cr.

A survey of current advances in the field. Precise topics to be announced. Prerequisite: Associate Degree in Law Enforcement and senior standing or consent of instructor.

MACHINE TECHNOLOGY

Division of Technology

Dwyer

Missouri Southern State College offers an Associate of Science in Machine Technology. The specialized course work in this curriculum is designed to prepare students for employment in the metal working industries. General education courses provide growth as an individual and for constructive living in the family and nation.

The curriculum is college oriented. Students following this curriculum are regular members of the college student body and are expected and encouraged

to participate in extracurricular activities.

The Associate of Science in Machine Technology requires the completion of the general education courses (see page 54) plus the following: Draf. 101, 130, Mach. 100, 110, 160, 210, 240, and 260.

5315-100—Introduction to Machine Tool Processes (F)

5 hrs. cr.

An introductory course covering the operation, safety, set-up and theory of the five basic machine tools, the lathe, drill press, milling machine, grinders, shaper and planers, and the basic theory and operation of heat treatment and inspection equipment. Two one-hour lectures; three three-hour laboratories per week.

5315-110—Advanced Machine Tool Processes (S)

5 hrs. cr.

The study and use of attachments and accessories for basic machine tools and the introduction of production machines and methods; screw machines, turret lathe, tracer lathes, gear hob, electrical discharge machines, and chemical milling. Two one-hour lectures; three three-hour laboratories per week. Prerequisite: Mach. 100.

5315-160—Process Instrumentation (F),

2 hrs. cr.

Teaches quality control, inspection and precision measurement procedures. Utilizes air and electronic gauging systems, optical measurement and related math. One one-hour lecture; one two-hour laboratory per week.

5315-210—Fundamentals of Cutting Tools (S)

5 hrs. cr

Introduction to tool geometry, chip formation and effects of coolants and tool design on tool life. Instruction on the sharpening of standard cutting tools for drilling and on the applications of various factors on machinability. The use of carbides and ceramics as cutting tools. Two one-hour lectures; three two-hour laboratories per week. Prerequisite: Mach. 110.

5315-240—Fundamentals of Toolmaking (S)

5 hrs cr

Advanced course on the designing, machining, and manufacturing of

production tools and dies and jigs and fixtures. Prerequisites: Mach. 110 and Draf. 110. Two one-hour lectures; seven hours laboratory per week.

5315-250—Numerical Control in Machining (demand)

3 hrs. cr.

The introduction to point-to-point and continuous path numerical control, part programming, operation of numerical control systems, and justification and maintenance of numerical control systems. One one-hour lecture; two two-hour laboratories per week. Prerequisites: Mach. 110, Mach. 150, and Draf. 110.

5315-260—Fundamentals of Metallurgy (F)

2 hrs. cr.

Introduction to ferrous and non-ferrous metallurgy. Studies the physical properties of the various alloys, heat treatment of them, chemical properties of metals, applications of the various metals, machinability, tensile strength and hardness testing, and study of the grain structure of the various alloys. One one-hour lecture; one two-hour laboratory per week.

5315-498—Seminar in Machine Technology (demand)

1-3 hrs. cr.

Covers specialized knowledge and skills related to new developments in machine technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology and having the Associate Degree in Machine Technology.

5315-499—Independent Study in Machine Technology (demand)

1-3 hrs. cr.

Individually directed reading, research, and discussions in selected areas of Machine Technology, for advanced majors. Scope, depth, and area of concentration and credit will be arranged upon entry into the course. Offered by arrangement. Prerequisite: Permission of the instructor.

MARKETING AND MANAGEMENT

Division of Business Administration

Hartley, B. Johnson, Larimore, Leon, Miller, Tiede

Look under General Business for requirements essential to earning Bachelor of Science in Business Administration degree with the Marketing and Management major. In the same place find the requirements for the Bachelor of Science in Education degrees with a Business Education major.

The requirements for the Technology Programs leading to Certificates of Achievement and Associate of Science degrees are found on pages 158 and 164.

0509-300—Principles of Marketing (F,S)

3 hrs. cr.

A survey of the major marketing methods, institutions and practices. The subjects of retailing, wholesaling, distribution channels, marketing legislation, advertising, cooperative marketing, pricing, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ. 202.

0509-312—Retailing (F,S)

3 hrs. cr.

Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: MM 300.

0506-350—Business Organization and Management (F,S)

3 hrs. cr.

A course in universal organization and management theory with application of concepts and techniques to specific realistic case situations. Prerequisite: GB 101.

MARKETING AND MANAGEMENT

0515-352—Personnel Management (F,S)

3 hrs. cr.

A study of the principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

0509-401—Promotional Strategy (F,S)

Description of fundamental advertising principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising, and formulation of campaigns. Prerequisite: MM 300.

0590-412—Marketing Management (F)

Managerial aspects of marketing; problems involved in investigations of markets, planning the sales effort, management of sales and service personnel, and control of sales operations. Prerequisite: MM 350 and MM 300.

0506-431—Production Management (F)

3 hrs. cr.

Principles and decision analysis related to the effective utilization of the factors of production in manufacturing activities for both intermittent and continuous systems. The study of production organizations, analytical models and methods, facilities design, and the design of control systems for production operations. Prerequisite: MM 350.

0506-452—Business Policy (S)

3 hrs. cr.

An integrating course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisite: MM 350.

0509-470—Marketing Research (S)

A course involving the systematic gathering, recording and analyzing of data relating to (1) market analysis, (2) sales analysis, (3) consumer research, and (4) advertising research. Prerequisite: GB 321 and 6 hrs. of Marketing.

0509-498—Seminar in Marketing and Management (demand)

A seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

0509-499—Independent Study in Marketing and

Management (demand)

1-3 hrs. cr.

Individually directed readings, research, and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: G.P.A. of 3.0 in major field and permission.

MATHEMATICS

Division of Arts and Sciences

Allen, Boehning, Elick, Jensen, Jolly, Livingston, Martin, Subramanian

A major for the Bachelor of Science degree consists of 39 semester hours. The required courses are: Math 150, Math 250, Math 260, Math 300, plus 21 upper division hours in mathematics. In addition, 18 hours in physical sciences (excluding Chem. 100, Phys. 100, and Geol. 110).

A major for the Bachelor of Science in Education with mathematics as one teaching field (Plan B) consists of total of 33 semester hours in mathematics. The required courses are: Math 150, Math 250, Math 260, Math 300, and 15 upper division hours in mathematics. In addition, 10 hours in the physical sciences (excluding Chem. 100, Phys. 100, and Geol. 110) are required. See page 93 for teacher education requirements.

A major for the Bachelor of Science in Education degree with mathematics as one of two teaching fields (Plan A) consists of 30 semester hours. The required courses are: Math 150, Math 250, Math 260, Math 300, and 12 upper division hours in mathematics. See page 93 for teacher education requirements.

1701-20—Beginning Algebra (F,S)

3 hrs. cr.

A beginning algebra course with a review of basic arithmetic and practical applications. No credit towards baccalaureate degree.

1701-30—Intermediate Algebra (F,S)

3 hrs. cr.

A course in intermediate algebra for students deficient in algebra. No credit towards a baccalaureate degree.

1701-110—Introduction to College Mathematics (F,S)

3 hrs. cr.

Basic college mathematics with an introduction to various areas of mathematics such as sets, logic, linear programming, and probability. This course satisfies the requirement in mathematics for general education. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 20 with a grade of C.

1701-111—Mathematics for Elementary Teachers I (F,S)

3 hrs. cr.

A study of the real number system and its subsystems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 20 with a grade of C. (Will not meet general education mathematics requirement for non-elementary education majors.)

1701-112—Trigonometry (demand)

2 hrs. cr.

Study of trigonometric functions. Prerequisite: One and one half units of high school algebra, one unit high school geometry or permission of the instructor and satisfactory score on the Mathematics Placement Test.

1701-120—Mathematics for Elementary Teachers II (F,S)

3 hrs. cr.

Sets of points, systems of numeration, arithmetic of the rational numbers, metric and non-metric geometry, relations and functions, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111.

1701-130—College Algebra (F,S)

3 hrs. cr.

A study of linear equations, radicals and exponents, quadratic equations, inequalities, theory of equations, and the binomial theorem. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test, or Math 30 with a grade of C.

1701-131—Finite Mathematics (F,S)

3 hrs. cr.

An introduction to finite mathematics with algebra that is designed for business, social science, and computer science students. Algebra, logic, set theory, probability, matrices, with applications to business and social sciences. Prerequisite: One and one half units of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 30 with a grade of C.

1701-140—Algebra and Trigonometry (F,S)

5 hrs. cr.

This course is the equivalent of Math 112 and Math 130. Prerequisite: One and one half units of high school algebra, one unit of high school geometry or permission of the instructor and satisfactory score on the Mathematics Placement Test.

1701-150—Calculus with Analytic Geometry I (F,S)

Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of C, or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test

1701-250—Calculus with Analytic Geometry II (F.S)

5 hrs. cr.

Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of C.

1701-260—Calculus with Analytic Geometry III (F,S)

Solid analytic geometry, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of C.

1701-300—Fundamentals of Mathematical Thought (S)

An introduction to modern algebra and analysis. Sets, relations, functions, logical development of number systems, introduction to theory of groups, rings, integral domains and fields. Prerequisite or corequisite: Math 260.

1701-302—Calculus for the Management and Social Sciences (demand)

Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130, or Math 131, or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

1702-310—Elementary Statistics (demand)

A course intended to provide a basic statistical background for the various majors for advanced study in their specialties. Topics to be covered include data reduction, measures of central tendency, estimation and use of statistical hypothesis, with applications to social, managerial, biological, and physical sciences. This course satisfies the general education requirements in mathematics. Prerequisite: two years high school algebra or Math 130. Will not count toward a major in mathematics.

0833-312—Problems of Teaching Arithmetic in the

Elementary Schools

(See Education 312 for description.) Will not count toward a major in mathematics.

1701-322—Differential Equations (S)

Standard types of ordinary differential equations of the first and second order, linear equations with constant coefficients and applications to geometry and physical science. Prerequisite: Math 260.

1701-332—Geometry (F)

3 hrs. cr.

Concentrated Euclidian geometry theory from a modern axiomatic viewpoint. Includes an introduction to projective and non-Euclidean geometrics. Recommended for prospective secondary mathematics teachers. Prerequisite: Math 250.

0833-339—Teaching Mathematics in Secondary School (S)

(See Education 339 for description.) Will not count toward a major in mathematics.

1701-340—Advanced Engineering Mathematics (demand)

3 hrs. cr.

A course in advanced techniques in Algebra and Analysis. Includes matrix algebra, eigenvalues and eigenvectors, bilinear and quadratic forms, Bessel function, Legendre, Laguerre, and Hermite polynomials, Fourier series. Prerequisite: Math 260.

1703-350—Introduction to Numerical Analysis (S, Even)

3 hrs. cr.

Error Analysis, solution of polynomial and transcendental equations, colocation polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp. 120.

1701-351—Linear Algebra (S,Odd)

3 hrs. cr.

The algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

1702-361—Introduction to Probability (F)

3 hrs. cr.

Introduction to theory of probability using concepts and methods of calculus. The binomial and Poisson Probability measures. The central limit theorem. Prerequisite: Math 260.

1701-412—Vector Analysis (S,Odd)

3 hrs. cr.

Vector spaces, linear transformations, determinants, eigenvalues and diagonalization of symmetric matrices, curl, divergence, gradient, multiple integrals and the theorem of Green, Gauss and Stokes. Corequisite: Math 260.

1701-421—Advanced Calculus I (F, Even)

3 hrs. cr.

A rigorous review of elementary calculus: Real number systems, continuous functions, functions of several variables, implicit functions. Prerequisite or corequisite: Math 300.

1701-422—Advanced Calculus II (S, Even)

3 hrs. cr.

Coordinate transformations, vectors, multiple integrals, Green's theorem, theory of integration, differential equations, Fourier Series. Emphasis on theory rather than applications. Prerequisite: Math 421.

1703-431—Numerical Analysis (F, Even)

3 hrs. cr.

Fundamental numerical analysis theorems, Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp. 120.

1799-498—Seminar in Mathematics (demand)

1-3 hrs. cr.

A seminar for upper division math or related majors. The class meets regularly each week. Meeting times per week are equal to the number of credit hours determined by the department for a given semester. The course is designed to give both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

1799-499—Independent Study (demand)

1-3 hrs. cr.

An independent study course structured by the adviser with approval of the department head and division chairman. Prerequisite: Advanced standing in the major field with a grade point average of 3.0 Registration must be approved by the advisor, department head, and division dean.



MEDICAL TECHNOLOGY

Division of Technology

(See combined/affiliated degree programs, page 157.)

MILITARY SCIENCE

Division of Technology

Bridges, Campbell

Military Science Department directs and administers the Army Reserve Officers Training Corps (ROTC) program by joint agreement between MSSC and the U.S. Army. The primary objective is to prepare qualified students for military service as officers in the Army Reserves or regular Army while earning a college degree.

Two elective programs are provided: a four-year and a two-year program. Four-year program: divided into a basic course and an advance course, each consisting of four courses and a six-week advanced camp following the junior year. Two-year program: allows a six-week basic summer camp at the end of the sophomore year to substitute for the first two years of the four-year program.

Advanced course and all scholarship students receive \$100 per month plus pay and travel for summer encampments; additionally, the scholarship students receive all tuition, books, and fees. Total pay during the course for a student is approximately \$2400 and for the scholarship student tuition, fees, books, plus \$100 per month.

The Army ROTC scholarship program offers four-year scholarships to selected high school seniors and a three, two and one-year scholarship to selected students enrolled in ROTC. See this department for details.

Veterans and students with prior ROTC or other military training may be eligible for course credit in the ROTC program. Contact this department for evaluation. MINOR: A minor in Military Science is satisfied by completion of not less than 16 hours of MS courses to include: MS 301, 302, 411 and 412 (Non-certifiable.)

Uniform and Text. Textbooks are supplied for all ROTC classes by the U. S. Government. Uniforms are supplied to basic course cadets on a loan basis and remain the property of the U. S. Government.

Advanced course and two-year program cadets are furnished all required uniform items. Most of these items are donated to the individual upon commissioning. An additional \$300 uniform allowance is provided upon entry on active duty.

Deferment from Induction. Qualified basic course cadets may request an ROTC deferment from Selective Service induction. If approved by the Professor of Military Science, the cadet must agree in writing: to apply for and enroll in the advanced course if selected, accept a commission if offered and serve on active duty for a period of two years if required. Advanced course and two-year program cadets sign a similar deferment agreement.

1801-101—The U. S. Defense Establishment (F)

2 hrs. cr.

History, organization and mission of the ROTC and of the military; civilian obligations of the citizen; instruction in marksmanship; leadership theory and practice.

1801-102—The U. S. Defense Establishment II (S)

2 hrs cr

Defense establishment in national security; leadership theory and practice.

1801-201—American Military History and Leadership (F)

2 hrs. cr.

The role of the U. S. Army in American History with emphasis placed upon various military leaders' application of the principles of war; leadership theory and practice.

1801-202—Techniques of Military Science (S)

2 hrs cr

Map and aerial photograph reading; introduction to military operations and basic tactics; leadership theory and practice.

1801-301—Leadership and Management I (F)

3 hrs. cr.

Leadership, its principles, responsibilities and techniques. Functions of the leader; special problems in applied military teaching techniques and in applied military leadership including management of military assets; leadership theory and practice. Prerequisite: permission.

1801-302—Fundamentals and Dynamics of Military Team I (S)

3 hrs. cr.

Branches of the Army, internal defense and development, small unit tactics, communications; leadership theory and practice. (Included is a physical training program and two weekend field problems.)

1801-411—Fundamentals and Dynamics of Military Team II (F)

hrs. cr.

Command and staff concept and evolution, organization for operations, the value and scope of military intelligence, the composition and mission of various military teams, broad aspects of military logistics; leadership theory and practice. Prerequisite: permission.

1801-412—Leadership and Management II (S)

3 hrs. cr.

Military law, obligations and responsibilities of an officer, military personnel and administrative management; world change and military implications; leadership theory and practice. Prerequisite: permission.

MUSIC

Division of Arts and Sciences

Elliott, Harrell, Harris, D. Johnson, Sims, Thelen

The Department of Music offers courses leading to the degrees of Bachelor of Arts and Bachelor of Science in Education in Music. The Bachelor of Arts degree includes 64 required hours of music. Required courses are Music 111-112, Music 181-182, Music 211-212, Music 311-312, Music 420, Music 431, Music 444, 16 hours of applied major, 8 of applied piano, and 16 hours of large ensemble. The keyboard major may elect an additional 8 hours in lieu of applied piano requirement.

The Bachelor of Science in Education degree requires a core of the following courses: Music 111, Music 112, Music 131, Music 181, Music 182, Music 211, Music 212, Music 311, Music 312, Music 332, Music 420, Music 431, Music 432, & Music 444. These addl. courses must be completed in order to be certified for the following:

Vocal major — Music 310.

Instrumental major — Music 231, Music 232, Music 361, Music 362, Music 411.

Double Certification — Music 231, Music 232, Music 310, Music 361, Music 362, Music 411, two semesters of applied voice if not a voice major, and include two semesters of large choral ensemble.

All students must meet departmental requirements for recital, acquire 14 hours in applied music, perform in a large ensemble during each semester of residency (a minimum of 14 hours), and pass a piano proficiency test. Traditionally the music major who seeks either the Bachelor of Arts or Bachelor of Science in Education degree must complete slightly more than the minimum hours for graduation. See page 93 for teacher education requirements.

1006-110—Music Appreciation (F,S)

3 hrs. cr.

Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

1004-111—Music Theory (F)

3 hrs. cr.

Study of basic fundamentals of music with initiation of harmonic analysis and part-writing. Basic course for music majors; others by consent of the instructor.

1004-112—Music Theory (S)

3 hrs. cr.

Sequential course in written harmony, including inversions, seventh chords, and non-harmonic tones. Prerequisite: Music 111. Three meetings per week.

1004-121, 122, 221, 222, 321, 322, 421, 422—Choir (F,S)

2 hrs. cr.

Open to all college students by audition only. Preparation and performance of great choral works. Prerequisite: permission of the instructor.

0832-131—Introduction to Professional Music Education (demand)

A course designed to orient the student to the profession of music education.

1004-141, 142, 241, 242, 341, 342, 444, 442—Lab Band (F,S)

A stage band open to all students who are qualified instrumentalists. The Lab Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: permission of the

1004-151, 152, 251, 252, 351, 352, 451, 452—Orchestra (F,S)

2 hrs. cr.

Open to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard orchestral literature. Prerequisite: consent of instructor.

1004-161, 162, 261, 262, 361, 362, 461, 462—Vocal Ensemble (F,S)

1 hr. cr.

Small select ensemble from the membership of the college choir. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: membership in choir.

1004-171, 172, 271, 272, 371, 372, 471, 472—Brass Choir (F,S).

Open to all students with band instrument experience. Performance of literature for brass ensemble. Two meetings per week.

1004-180—Choral Society (demand)

Open to all college students and area adults. The purpose of this course is to offer choral experiences for all college students and adults not eligible for the choir. Concerts will be scheduled throughout the year at the discretion of the conductor.

1004-181—Choral Conducting Techniques (F)

2 hrs. cr.

Technique of baton, factors in interpretation, score reading, rehearsal procedures for choral organizations, program building, and public appearances.

1004-182—Instrumental Conducting Techniques (S)

2 hrs. cr.

Techniques of baton, factors in interpretation, score reading, rehearsal procedures for instrumental organization, adds program building, and public appearances. Laboratory work with the college Concert Band or Orchestra.

1004-191, 291, 391, 491—Marching Band (F)

Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of marching maneuvers and pageants at athletic events and various community events. Prerequisite: permission of instructor.

1004-192, 292, 392, 492—Concert Band (S)

2 hrs. cr.

Open to all qualified students with band instrument experience. Rehearsal and public performances based upon study and preparation of composite repertoire for this media. Prerequisite: permission of instructor.

1004-211—Music Theory (F)

3 hrs. cr.

Modulation, diatonic seventh chords, altered chords, advanced part-writing procedures. Prerequisite: Music 112.

1004-212—Music Theory (S)

3 hrs. cr.

Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Music 221. Three meetings per week.

1004-310—Vocal Technics (F,S)

2 hrs. cr.

Class Instruction in tone production of the human voice and the correct usage of vowels and consonants for singing. Skill is developed so that each student will be able to sing individually demonstrating correct tone production. Includes vocal methods and solo materials. Not open to voice majors.

1006-311—History of Music (F)

3 hrs. cr.

General survey of history of music from Greek period to 18th century. (Formerly 351.)

1006-312—History of Music (S)

hrs cr

From 18th century to the present. Score reading required. (Formerly 352.)

0832-332—Music for the Elementary School (F,S)

hrs. cr.

Emphasis on methods of teaching music in the elementary classroom and a study of materials to be used. (Formerly 262.)

1004-411—Marching Band Techniques (F)

1 hr. cr.

Study of procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band. Includes study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor.

1004-420—Form and Analysis (demand)

3 hrs. cr.

Harmonic and formal analysis of compositions from the Baroque Era through contemporary music. Prerequisite: Music 212.

1004-431—Orchestration (F)

3 hrs. cr.

Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Music 212.

0832-432—Music in the Public School (demand)

3 hrs. cr

A course designed to acquaint the music education major with the problems of the administration and supervision of the school music program through the high school level. The content includes the place of music in the school program, music equipment, schedules, budget, instructional problems, and public relations in music. (Formerly 371.)

1004-444—Advanced Conducting Techniques (F)

2 hrs. cr.

To prepare the student to successfully handle some of the more difficult conducting skills. Includes irregular beat patterns, advance technical problems and methods developed for solving them. Prerequisite: Music 181, Music 182.



Instrumental Techniques (F,S)

1004-231 String Techniques 1004-232 Brass Techniques 1004-361 Percussion Techniques 1004-362 Woodwind Techniques

2 hrs. cr.

Class instruction in the orchestral and band instruments, including a study of methods and materials to be used in the teaching of a beginning student.

101 to 408—Applied Music (F,S)

1004-101 1004-102 1004-203 1004-204 1004-305 1004-306 1004-407 1004-408

1-2 hrs. cr.

Private instruction in organ, voice, trumpet, trombone, French horn, violin, viola, cello, double bass, flute, clarinet, oboe, saxophone, bassoon, and percussion. Credit variable. One hour lessons per week in major. Jury examination required. Lessons by arrangement with approved instructors.

APPLIED MUSIC

Piano Proficiency—1004-103 to 204 (Private Instruction) (F,S,Summer)

1 hr. cr.

1004-103 No Prerequisite

 1004-104
 Prerequisite:
 1004-103 or equivalent

 1004-203
 Prerequisite:
 1004-104 or equivalent

 1004-204
 Prerequisite:
 1004-203 or equivalent

Provides an acquaintance with the keyboard through the development of reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Maximum credit allowed: four units. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background.

Piano Elective—1004-105 to 406 (Private Instruction) (F,S)

1-2 hrs. cr.

1004-105; 1004-106 No Prerequisite

 1004-205;
 1004-206
 Prerequisite:
 1004-106 or equivalent

 1004-305;
 1004-306
 Prerequisite:
 1004-206 or equivalent

 1004-405;
 1004-406
 Prerequisite:
 1004-306 or equivalent

An elective course open to all students. Provides an opportunity to facilitate individual expression at the keyboard and to develop musicianship.

Piano Emphasis—1004-107 to 408 (F,S)

2 hrs. cr.

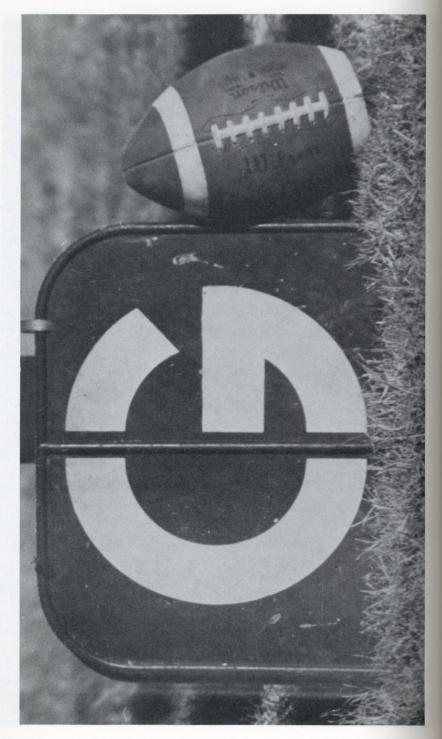
1004-107; 1004-108 Prerequisite: Ability to play in a pianistic and musical manner compositions comparable to Piano Level IV.

1004-207; 1004-208 Prerequisite: Piano 1004-108 or equivalent

1004-307; 1004-308 Prerequisite: Piano 1004-208 or equivalent and the ability to play compositions comparable to Piano Level VI.

1004-407; 1004-408 Prerequisite: Piano 1004-308 or equivalent and approved candidacy for BS or BA degree and recital approval.

The required courses for music students enrolled in the BS or BA programs with piano emphasis. Under-class courses may be repeated each year for credit. Descriptions of the piano levels are available from the Music Department office.



NURSING

Division of Technology Elgin, Jacobs, Ketchum, Vlasak, Clark

Missouri Southern State College offers a program leading to an Associate of Science Degree in Nursing. Satisfactory completion of the requirements for this degree qualifies the person to write the State Board of Nursing

Examination for licensure as a Registered Nurse (R.N.)

Admission to Missouri Southern State College does not automatically confer admission to the nursing program. In addition to meeting admission requirements for the College, candidates who are interested in a career in nursing as a Registered Nurse (R.N.) are required to apply for admission to the Department of Nursing. The application form may be obtained from the Department of Nursing office, Kuhn Hall. Applications should be submitted prior to April 1 preceding the Fall Semester which you wish to enter. Each application is reviewed by the Admission Committee for the Department of Nursing.

In determining a candidates' eligibility for admission basic qualifications compatible with the profession of nursing are given consideration including test results, scholarship, physical, mental, emotional health and references

establishing personal abilities.

Based upon the Committee's evaluation each applicant is placed in one of three categories: 1) Approved for Admission; 2) Approval on condition that certain stated requirements are met; or 3) Advised not to pursue the program in nursing.

Tuition and fees for nursing students include those listed on page 30 for all

college students. Additional expenses applicable to nursing students are:

 School uniforms, supplies and equipment Minimum of \$100.00

Graduation pin, uniform and licensing application fee Minimum of \$50.00

3. Eight week summer session: transportation, room, and meals for off campus clinical laboratory. Costs are variable based upon individual arrangement, laboratory schedules and available housing facilities.

The Associate of Science in Nursing requires a minimum of 72 semester hours. The required courses are: Nursing 100, 110, 130, 220, and 240. Supporting science courses required include: Soc. 110, Psy. 100, Bio. 221 and 231 and Chem. 100. Courses to complete general education requirements (see page 54) should be selected with advisor approval. Nursing courses must be earned in the prescribed sequence and supporting science courses should be earned in the prescribed sequence (see suggested order of study).

Supervised clinical laboratory periods are an integral part of each nursing course. During clinical laboratory periods students give direct care to patients under the guidance of the nursing faculty. Clinical laboratory periods are conducted in a variety of community health agencies. Three major agencies include: Freeman Hospital, St. John's Medical Center, Joplin; and St. John's

Hospital, Springfield, Missouri.

5208-100—Fundamentals of Nursing (F)

5 hrs. cr.

Nursing 100 provides an orientation to nursing through a brief study of nursing history, concepts of health-illness, and health care delivery. An introduction to pharmacology, communication skills, and rehabilitation is included. Components of the nursing process are presented with application of assessment and intervention in nutrition, elimination, activities of daily living and commonly prescribed therapeutic measures.

Consideration of the individual is approached through concepts of family development, emotional needs, spiritual needs, and resources in relation to

health, illness, and dying.

Three (3) hours lecture, four (4) hours of classroom laboratory, four (4) hours clinical laboratory including pre- and post-conferences.

5208-110—Maternal and Child Health (S)

9 hrs. cr.

Maternal and child health is the study of the developing family and normal growth and development from conception through adolescence. Theory provides the basis for application of the nursing process to the mother and her significant others. Complications of childbirth and common illnesses of childhood with related drug and nutritional needs are included. Historical highlights, legislation and trends are presented.

Five (5) hours lecture, twelve hours (12) clinical laboratory. Prerequisite:

Nursing 100 with a minimum grade of C.

5208-130—Psychiatric-Mental Health Nursing (Summer)

4 hrs. cr.

The course builds upon the psychosocial development concepts of previous courses. Communication skills in the therapeutic nurse-patient relationship are emphasized. The clinical laboratory provides the student with experiences in the current therapy programs in the psychiatric-mental health setting.

Four (4) hours lecture, twelve (12) hours clinical laboratory. Prerequisite:

Nursing 110 with a minimum grade of C.

5208-220—Nursing in Physical Illness I (F)

9 hrs. cr.

Nursing 220 focuses upon the care of the adult who requires medical and/or surgical intervention. Emphasis is given to developmental tasks during maturity. Application of all components of the nursing process is stressed in the care of the less acute or chronically ill person. Drug therapy, and diet therapy, and rehabilitation are included in relation to common health problems.

Five (5) hours lecture, twelve (12) hours laboratory with supervision including pre- and post-conferences. Prerequisite: Nursing 130 with a minimum grade of C.

5208-240—Nursing in Physical Illness II (S)

9 hrs. cr.

Continuation of the care of the adult in more acute and critical care facilities including related drug and diet therapy. Developmental tasks during the aging period are included. This course provides orientation to the role of the graduate by presentation of legal and professional responsibilities and opportunities. With supervision, the student assumes a more active role as a member of the health team.

Four (4) hours lecture, fifteen (15) hours clinical laboratory including pre- and post-conferences with the supervised clinical experience. Prerequisite: Nursing

220 with a minimum grade of C.

OFFICE ADMINISTRATION

Division of Business Administration

Compton, Miner

Look under General Business for requirements essential to earning a Bachelor of Science in Business Administration degree and a Bachelor of Science in Business Education degree.

The requirements for the Technology Programs leading to Certificates of Achievement and Associate of Science degrees are found on pages 158 and 164.

5005-101—Elementary Typewriting (F)

3 hrs. cr.

The chief emphasis in this course is to learn to manipulate the typewriter efficiently. The development of speed is stressed so that the student will, upon completion of the course, have a fair rate which will be of use to him personally. A few simple letter styles are taught as well as manuscript writing and basic tabulation.

OFFICE ADMINISTRATION

5005-102—Intermediate Typewriting (F,S)

3 hrs. cr.

This is primarily a letter writing course. All the styles of business and personal letters are studied and written. Efficient methods of writing more difficult manuscript and tabulations are also studied. Minimum requirement for passing is the ability to type 40 words per minute for five minutes with the 5-error limit. Prerequisite: OA 101 or a good knowledge of the keyboard.

5005-111—Elementary Shorthand (F)

3 hrs. cr.

A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Typewriting should precede or parallel the course. Class meets five days per week.

5005-120—Intermediate Shorthand (F,S)

A dictation course in which the theory has been completed. It is a review of theory, and special attention will be given to developing efficient transcription procedures. Dictation will range from 60 to 110 words per minute. The minimum speed requirement by the end of the semester is to write at least 80 words per minute with 95 per cent accuracy. Prerequisite: OA 111 or any course in which the theory has been completed.

5005-200—Advanced Typewriting (F,S)

Production of mailable letters, manuscripts, reports, addressing envelopes, business forms and legal typing is emphasized. Minimum passing requirement is 60 words per minute for five minutes with the 5 error limit. Prerequisite: OA 102 or the ability to type 40 words per minute and a knowledge of letter writing.

5005-210—Advanced Shorthand (F)

The emphasis in this course is to develop accuracy in transcription as well as to increase the rate of transcription. Dictation will range from 80 to 140 words per minute. The minimum requirement by the end of the semester is at least 90 words per minute with 95 per cent accuracy. Prerequisite: OA 120 or the ability to take dictation at 80 words per minute.

5005-220—Dictation and Transcription (S)

3 hrs. cr.

This is a course for the development of expert stenographers. A great deal of emphasis is placed upon accuracy and rate of transcription, and production of mailable letters. Dictation will range from 100 words per minute to 160 words per minute. The minimum requirement by the end of the semester is at least 120 words per minute with at least 95 per cent accuracy.

5005-230—Secretarial Procedures (S)

3 hrs. cr.

Business ethics, secretarial duties common to all lines of business, such as handling mail, meeting callers, using the telephone, etc. The student receives instructions in the use of present day filing systems and their application to the various types of business. This course is offered for sophomores in the Office Administration curriculum. Freshmen may be admitted by permission of the instructor.

0838-336—Methods of Teaching Business (F,S)

2 hrs. cr.

Special methods of instruction problems and difficulties peculiar to the teaching of each business subject; presentation of subject matter; content and arrangement of material, organization and administration. Prerequisite: At least one course in Education and one course in Psychology. Two hours credit in Education



PHILOSOPHY

Division of Arts and Sciences

Department of Language and Literature

McCormick

1509-201—Introduction to Philosophy (F)

3 hrs. cr.

Comparative survey of major types of philosophy, and of representative problems in philosophy.

1509-212-Ethics (S)

3 hrs. cr.

Exploration of the problem of value, personal moral attitudes and standards, comparative survey of major ethical systems, and evaluation of the chief ethical struggles in contemporary society.

HEALTH, PHYSICAL EDUCATION AND RECREATION

Division of Education and Psychology

Albins, Calwhite, Ellis, Frazier, Gaddis, Landrith, Oldham, Roper, Shipley, Wuch, Yount

Students who desire certification as a teacher of health, physical education and recreation may choose to become qualified at either the secondary level or a combination of both elementary and secondary levels. Students planning to major in this field should refer to page 93 of this catalog where the Teacher Education Program is described. Students planning to teach at both elementary and secondary levels should select Plan B*. Those desiring to make physical education one of two teaching fields should prepare under Plan A*. The second teaching field must be selected from: art, biology, business education, chemistry, English, mathematics, physics, physical science, Spanish, or speech. The student will consult the specific department concerned for the requirements of the second teaching field.

Persons preparing to teach physical education in the public schools of Missouri may also be **certified to teach health** by completing: HPER 160, Bio. 221, and HPER 370.

An area of concentration in **driver education** is offered in this department as a supporting area for those earning secondary level certification in any major area.

A certification program for **interscholastic coaches** is available for students who will be certified to teach at the secondary school level in any major area.

A major for the Bachelor of Science in Education degree with one teaching field (Plan B) consists of 46 semester hours. For men, the required courses are: Bio. 221, HPER 150, HPER 251, HPER 252, HPER 310, HPER 331, HPER 312, HPER 342, HPER 350, HPER 351, HPER 352 or 360, HPER 370, HPER 410, HPER 431, HPER 450, and HPER 470. (A course in child psychology (Psy. 300) or human development (Psy. 110) is required for teachers of elementary school physical education.)

For women, the required courses are: Bio. 221, HPER 150, HPER 251, HPER 252, HPER 310, HPER 312, HPER 321, HPER 322, HPER 332, HPER 342, HPER 370, HPER 410, HPER 431, HPER 450 and HPER 470. (A course in child psychology (Psy. 300) or human development (Psy. 110) is required

for teachers of elementary school physical education.)

A major for the Bachelor of Science in Education degree with physical education as one of two teaching fields (Plan A) consists of 32 semester hours. For men the required courses are Bio. 221, HPER 150, HPER 251, HPER 252, HPER 310, HPER 342, HPER 431 or 470, and HPER 450. Select 6

hours from HPER 332, HPER 350, HPER 351, HPER 352, and HPER 360. For women, the course requirements are: Bio. 221, HPER 150, HPER 251, HPER 252, HPER 310, HPER 321, HPER 322, HPER 342, HPER 431 or 470, and HPER 450.

0835-150—Introduction to Professional Physical Education (F,S) 2 hrs. cr.

A course designed to orient the student to the profession of physical education. Attention is given to the development and philosophy of Physical Education.

0837-160—Personal Health (F,S)

2 hrs. cr.

Study of health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene, and the cause and prevention of common diseases. Not recommended for elementary education majors.

*Persons planning to major in Physical Education should go to the physical education office to secure a sheet detailing the course requirements for the curriculum.

0835-251—Fundamentals of Physical Education Activities I (F)

Study of the skills and understandings of selected activities: games, sports and rhythms commonly found in the school program. Students are required to demonstrate minimum levels of proficiency in the various activities. A student may be required to enroll in an activity course in any area of weakness taught by a team composed of members of both the men's and women's physical education departments. Meets for two periods daily. (Either HPER 251 or 252 may be replaced with 5 semester hours of different activity courses, with permission of department head.) Enrollment restricted to H.P.E. majors.

0835-252—Fundamentals of Physical Education Activities I (S) 4 hrs. cr.

Study of the skills and understandings of selected activities: games, sports and rhythms commonly found in the school program. Students are required to demonstrate minimum levels of proficiency in the various activities. A student may be required to enroll in an activity course in any area of weakness taught by a team composed of members of both the men's and women's physical education departments. Meets for two periods daily. (Either HPER 251 or 252 may be replaced with 5 semester hours of different activity courses, with permission of department head.) Enrollment restricted to H.P.E. majors.

0835-310—The Elementary School Physical Education Program (F) 3 hrs. cr

A course designed to familiarize the student with the procedures and techniques for planning the curriculum for elementary school physical education. (P.E. majors only.)

0835-311—Physical Education for the Elementary School (F,S) 2 hrs. cr.

Study of the methods and materials needed in directing the activity programs of games, skills, rhythm, and stunts for the elementary school child. Designed for men and women who are candidates for the elementary level teaching certificates.

0835-312—Teaching Elementary School Physical Education (S) 2 hrs. cr.

Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisites: HPER 310 (P.E. majors only.)

HEALTH, PHYSICAL EDUCATION AND RECREATION

0835-321—Theory and Analysis of Selected Team Sports (F) 3 hrs. c

A professional course designed for physical education teachers with emphasis on organizing and performing of team sports. Field and play days are covered. Women only. Prerequisite: HPER 150 and 252.

0835-322—Theory and Analysis of Selected Individual Sports (S) 3 hrs. cr.

A professional course designed for physical education teachers with emphasis on organizing, officiating, and performing of individual sports. Women only. Prerequisite: HPER 150 and 252.

0835-331—Theory and Analysis of Selected Team Sports (F) 2 hrs. cr.

A professional course designed for physical education teachers with emphasis on organizing, officiating, and performing of team sports. Men only. Prerequisite: HPER 252.

0835-332—Rhythmic Form and Analysis (S)

2 hrs. cr.

Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite: Activity course in dance.

0835-340—Motor Learning in Physical Education (S) 3 hrs. cr.

Study of motor learning to provide the teacher with the background necessary for developing a physical education program that meets the needs of the physically and mentally handicapped. Prerequisite: HPER 310 or 311, or permission of instructor.

0835-342—Kinesiological Approach to Movement (S) 3 hrs. cr.

A mechanical and kinesiological approach to the movement of average and exceptional individuals in various activities. Prerequisite: Bio. 221 or equivalent and HPER 252.

0835-350—Theory of Basketball (S)

2 hrs. cr.

Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: HPER 252.

0835-351—Theory of Football (F)

2 hrs. cr.

Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: HPER 252.

0835-352—Theory of Track and Spring Sports (S) 2 h

Organization and administration of meets, coaching, physical conditioning and training for each event including track and field programs. Golf, tennis, and other spring interscholastic sports are also included. Prerequisite: HPER 252.

0835-360—Theory of Baseball (S)

2 hrs. cr.

Organization and management of a school baseball program to individual techniques, team play and problems in coaching of baseball. Prerequisite: HPER 252.

0837-370—School and Community Health Education (F,S) 3 hrs. cr.

Study of the content, facilities, and equipment needed for teaching school and community health. The course is concerned with the health of the individual and of groups. Should be taken by all elementary education majors in place of HPER 160. Separate sections with emphasis on Health and Nutrition Programs for children are taught for elementary majors. Prerequisite: 5 hrs. Biology.

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0835-410—Rules and Officiating of Team Sports (F,S,Even)

3 hrs. cr.

Knowledge and skills for officiating basketball, volleyball, softball, baseball, and football; officiating laboratory required in some areas. Prerequisite: HPER 252.

0835-431—Supervision of Interscholastic Programs (F,S)

3 hrs. cr.

Study of the organization and management of athletic programs in schools, staff functions, student leadership, facilities, equipment, health and legal aspects. Rules and regulations of interscholastic activities and techniques of officiating are studied. Officiating laboratory work is required. Prerequisite: HPER 150 and 252.

0835-450—Prevention and Care of Injuries (F)

3 hrs. cr.

Laboratory experiences in the care and prevention of athletic injuries. Includes first aid training. Prerequisite: Bio. 221 and HPER 342. Enrollment limited to physical education majors.

0835-470—Administration of Physical Education (F,S)

3 hrs. cr.

Organizations and management of health and physical education in schools, scheduling, personnel, curriculum, finance, equipment and facilities. The intramural program will be studied in detail. Prerequisite: 20 hr. HPER.

0835-498—Seminar in Health or Physical Education (demand)

. . .

A thorough study of an advanced problem in health or physical education for selected students. Prerequisite: Senior standing, permission of department head.

0835-499—Independent Study

1-3 hrs. cr.

Research of a problem or field study relating to physical education; material, content, credit and schedule to be arranged by the department head. Prerequisite: Senior standing, 3.0 grade point average in major, and permission of department head.

DRIVER EDUCATION

To meet the Missouri teacher certification requirements as a driver education instructor the following courses are required: HPER 220, HPER 230, HPER 361, HPER 362, and Auto. 150. Also required are at least 2 hours selected from the following: Psy. 210, Psy. 221, Educ. 370, and Educ. 420. Driver education may be selected as a minor area for any person planning to teach at the secondary level under Plan B. Persons under Plan A can obtain certification for driver education also, but this certification must be in addition to their other two teaching fields.

0836-220-First Aid (S)

2 hrs. cr.

Designed to complete the standard course of the American Red Cross in First Aid.

0836-230—Safety (F)

2 hrs. cr.

A course aimed at developing concepts which are basic to safety education and for preparing the student to assume responsibility for accident prevention in the school, home, and community.

0836-361—Introduction to Driver Education (F)

3 hrs. cr.

The first of two courses designed to prepare teachers of driver education for secondary schools. The place of the motor vehicle in American life;

HEALTH, PHYSICAL EDUCATION AND RECREATION

traffic safety; instructional materials and recommended methods of presenting such materials in the classroom and in the car on the road; laboratory work with beginning drivers. Prerequisites: Psy. 301. Students must have: (1) a valid driver's license and (2) a safe driving record.

0836-362—Advanced Driver and Traffic Safety (S)

3 hrs. cr.

A continuation of 361 with special attention given to administration, organization, finance, adult education, research, and evaluation of the school driver education program. Traffic safety problems at the local, state and national levels are also considered. Laboratory required. Prerequisite: HPER 361.

RECREATION

0837-390—Introduction to Recreation (demand)

3 hrs. cr.

A study of the recreation movement in America with a special insight into the development of community recreation departments and programs.

0837-391—Recreational Leadership (demand)

3 hrs. cr.

A study of the qualities which make for effective leadership and a look at the role of the recreation leader. Prerequisite: HPER 390.

COACHING CERTIFICATE*

The coaching certificate has been established to provide an opportunity for students other than physical education majors to become certified coaches in the State of Missouri. To earn the certificate the student should have a background in athletics and complete a total of 15 semester hours plus any prerequisite. The required courses are as follows: HPER 220, HPER 331, HPER 342. Select 6 hours from: HPER 350, HPER 351, HPER 352, HPER 360.

THE ACTIVITY PROGRAM IN PHYSICAL EDUCATION

The activity program in physical education has two basic objectives. It has the purpose of offering a program that will provide the student with the opportunity to develop a degree of skill sufficient to create interest and participation in this activity during leisure time in the adult years. A second important purpose is to provide the student with the necessary knowledge of philosophical, psychological, physiological and sociological nature of physical activity to comprehend the necessity of continued physical health throughout his lifetime.

To insure exposure to the various recreational activities, the College has

adopted the following requirements:

All men and women (except physical education majors) must enroll in HPER 101. Students are required to complete two additional hours; this may be done by choosing two activity courses or HPER 160. All persons planning to teach in the elementary schools of Missouri must complete either HPER 160 or HPER 370.

Physical Education majors will be required to enroll in HPER 150 during their freshman year and HPER 251 and HPER 252 during their sophomore year. Varsity athletes should also enroll in the sport of their choice which will replace any activity course requirement except HPER 101.

A uniform prescribed by the division is to be furnished by each student

and is a course requirement.

*This certificate does not permit the individual to teach physical education.

ACTIVITY COURSES

Course No.		Hrs. cr
0835-100C	Individual Physical Education (Therapeutic) (F)	
0835-101C	Introduction to Physical Activities I (F,S)	
0835-161M	Varsity Football (F)	
0835-162 M	Varsity Basketball (F)	
0835-171M	Varsity Cross Country (F)	
0835-172M	Varsity Track and Field (S)	
0835-180 M	Varsity Golf (S)	
0835-182M	Varsity Baseball (S)	1
0835-192M	Varsity Tennis (S)	1
0835-210C	Golf and Badminton (F,S)	
0835-215M	Bowling and Flag Football (F)	1
0835-222C	Varsity Sports and Activities (F,S)	1
0835-231C	Elementary Gymnastics and Tumbling (F,Odd)	1
0835-232C	Intermediate Gymnastics (S,Even)	1
0835-240C	Fencing and Archery (F)	1
0835-241M	Soccer, or Speedball and Basketball (F,Even)	1
0835-242M	Volleyball and Tennis (S,Odd)	1
0835-250C	Social Dance (S)	1
0835-261C	Elementary Swimming (S,Odd)	
0835-270C	Advanced Swimming (Senior Life Saving) (S, Even)	1
0835-281C	Elementary Modern Dance (F.Even)	1
0835-282C	Intermediate Modern Dance (S,Odd)	1
0835-290C	Recreational Activities (S,Even)	1
0835-292C	Track, Weight Training (F.S)	1

Unless otherwise noted, courses listed above have separate sections for women and men. The letters M. W. and C will be added to the course number of the schedule to indicate the designated sections. M indicates the course is for men only. W indicates the course is for women only. C indicates the course is coed.

PHYSICS

Division of Arts and Sciences

Phillips, Sloan, Strobel

A major for the Bachelor of Science degree in Physics consists of 36 semester hours in physics plus 18 additional hours in mathematics. The required courses are: Phys. 250, Phys. 260, Phys. 301, Phys. 322, Phys. 341, Phys. 372, Phys. 381, Phys. 401, Phys. 452 or Phys. 480, Phys. 498, Math 150, Math 250, Math 260, and Math 322. The following courses are recommended but not required: Chem. 101, Chem. 102, Comp. 120, Comp. 230, Comp. 240, Math 351, Math 412, Math 431, and Phys. 480. Students who plan to seek an advance degree in engineering should plan a minimum of one year at a major university for a masters degree and two years for both the bachelor and master degrees in engineering. See suggested order of study in physics for engineering guidelines.

A major for the Bachelor of Science in Education degree with physics as a single teaching field (Plan B) consists of 25 semester hours of physics plus 15 additional hours in mathematics. The required courses are: Phys. 250, Phys. 260, Phys. 301, Phys. 322, Phys. 381, Phys. 498, Math 150, Math 250 and Math 260. Four upper division additional elective hours in physics are also required. The following courses are recommended but not required: Chem. 101, Chem. 102, Comp. 120, Geol. 110 and Phys. 372.

A major for the Bachelor of Science in Education degree with physics as one of two teaching fields (Plan A) consists of 21 semester hours of physics plus 15 additional hours in mathematics. The required courses are: Phys. 250, Phys. 260, Phys. 301, Phys. 322, Phys. 381, Phys. 498, Math 150, Math 250 and Math 260. The following courses are recommended but not required: Chem. 101, Chem. 102, Comp. 120, Phys. 372 and Geol. 110.

Physical Science

A major for the Bachelor of Science in Education degree with a double teaching field in physics and chemistry consists of 21 hours of chemistry and 21 hours of physics, 5 hours of Geology, plus mathematics through Math 260. The required courses are: Phys. 250, Phys. 260, Phys. 301, Phys. 381, Phys. 498, Chem. 101, Chem. 102, Chem. 162, Chem. 201, Chem. 301, Geol. 110, Math 150, Math 250, Math 260, plus 3 hours of upper division electives in physics. See page 93 for teacher education requirements.

1901-100—Fundamentals of Physical Science (F,S) 5 hrs.

Basic concepts in the field of physics, chemistry, geology, and astronomy. Emphasis on such environmental topics as energy reserves, chemical and thermal pollution, transportation nets, fossil and nuclear power generation, and population. Lecture and demonstration periods. Prerequisite: Math 30 with a minimum grade of C or qualified for Math 110 on the MMPT.

1902-151—Elementary College Physics I (F) 5 hrs. cr.

Study of mechanics, properties of matter, heat, wave motion, sound, electrical circuits, and radioactivity. Four hours of lecture and one 2-hour laboratory per week. Prerequisites: Math 140 or Math 130 and permission of the instructor.

1902-152—Elementary College Physics II (S) 3 hrs. cr.

Magnetism, optics, relativity, nuclear reactions and further study of mechanics including rotational dynamics. Two hours of lecture and one 2-hour laboratory per week. Prerequisite: Phys. 151.

1902-250—General Physics I (F,S) 5 hrs. cr.

Includes the study of mechanics, properties of matter, heat, wave motion and sound. The conservation laws of physics are emphasized. Four hours of lecture and one three-hour laboratory per week. Corequisite: Math 150.

1902-260—General Physics II (F,S) 5 hrs. cr.

A study of electricity, magnetism, and light, with introductions to quantum properties of radiation and matter. Four hours of lecture and one three-hour laboratory per week. Prerequisite: Phys. 250. Corequisite: Math 250.

1911-300—Astronomy (demand) 3 hrs. cr.

Solar system, gravitation, Kepler's laws, celestial coordinate systems, telescopes and optical systems, stellar evolution, nebula, galactic structure, and cosmology. Two hours lecture and one two-hour lab a week. Prerequisites: Physics 100 or equivalent and one year of high school algebra.

1902-301—Modern Physics (F)

4 hrs. cr.

Wave motion special theory of relativity wave-particle experiments in-

Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics, and nuclear physics. Prerequisite: Physics 260. Corequisite: Math 260.

1902-312—Statics (S)

3 hrs. cr.

The principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys. 250. Corequisite: Math 260.

1902-322—Classical Mechanics (S, Even)

3 hrs. cr.

Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, central force motion, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hours of lecture per week. Prerequisite: Phys. 260. Corequisite: Math 322 or permission of instructor.

1902-341—Thermal Physics (S,Odd)

4 hrs. cr.

Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, low temperature physics, change of phase, kinetic theory, and statistical mechanics. Four hours of lecture per week. Prerequisites: Math 260 and Phys. 260.

1902-372—Electronic Circuits (S)

4 hrs. cr.

Circuit analysis, resonance, tube and transistor characteristics, power supplies, amplifiers, and oscillators. Two three-hour lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys. 260. Corequisite: Math 260.

1902-381—Intermediate Physics Laboratory (F, Even)

3 hrs. cr.

Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photo-electric effect and radio-activity. Two 3 hour laboratories per week. Prerequisite: Phys. 301 or permission of instructor.

1902-401—Electricity and Magnetism (F,Odd)

4 hrs. cr.

Includes study of electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties of matter, induced electromotive force, electric circuits, Maxwell's equations and electromagnetic waves. Four hours of lecture per week. Prerequisites: Math 260 and Phys. 260.

1902-452—Quantum Mechanics (demand)

3 hrs. cr.

Time independent Schroedinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multi-electron atoms and applications to solid state physics. Three hours of lecture per week. Prerequisite: Phys. 301 and Math 322.

1902-480—Selected Topics in Physics and Engineering (demand)

3 hrs. cr.

Students may select one or more of the following topics for further study: Solid State Physics, Optics, Nuclear Physics, Advanced Mechanics, Circuit Analysis, and Fluid Mechanics and Heat Transfer.

1902-498—Seminar (F,S)

1-3 hrs. cr.

Topics of current interest elected by the student from the areas of physics and engineering. The course will also include several visits to nearby universities to attend colloquiums. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hours of physics and permission of the instructor.

1902-499—Independent Study (F,S)

1-3 hrs. cr. each time elected

An independent study course structured by the advisor with approval of the department head. Prerequisite: Advanced standing with a grade point average of 3.0 in the major field. Registration in the course must be approved by advisor and the department head.

POLITICAL SCIENCE

Division of Arts and Sciences

Department of Social Science

Jones, St. Clair, Youst

Students who plan to do graduate study after completing the baccalaureate degree and/or who plan to enter government or community service will want to take the Bachelor of Arts degree. A political science major for this degree consists of 30 semester hours in Political Science. The student will select these courses in consultation with his advisor.

A political science minor consists of 20 semester hours in Political Science. For the minor the student will also select these courses in consultation with his advisor.

A social science major for the Bachelor of Science in Education degree, with an emphasis in Political Science (Plan B) consists of 47 semester hours. The requirements are: Hist. 110, Hist. 120, Hist. 200, Hist. 205 or 210, 6 hours of upper division History courses, 3 hours of European and 3 hours of U. S. History, PSc 120. For the remaining 26 hours the student will take Econ. 201, 6 hours of Geography, 3 hours of Sociology and 14 hours in upper division Political Science courses. See page 93 for teacher requirements.

2207-120—Government: National, State, Local (F,S)

3 hrs. cr.

A study of the National, State and Local governments in the United States, including the state of Missouri.

2207-231—Introduction to Political Science (F)

3 hrs. ci

A study of the discipline of Political Science which deals with the foundation, organization, development and principles of political science.

2207-301—Political Parties and Elections (F,Even)

3 hrs. cr.

A study of the origins, structure, and functions of political parties; the dynamics of the two-party system and the role of third parties. It also analyzes the election process. Prerequisite: Political Science 120.

2207-302—Public Opinion and Pressure Groups (S,Odd)

3 hrs. cr

The study of the nature of pressure and interest groups and their role in the formulation of public opinion and governmental policy. Prerequisite: Political Science 120.

2207-310—Law, Society, and Citizenship (On demand)

2 hrs. cr.

A study of the American legal system with special attention given to judicial interpretation of basic constitutional rights and liberties.

2207-311—The American Presidency (F,Odd)

3 hrs. cr.

The politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government. Prerequisite: Political Science 120.

2207-312—The Legislative Process (S, Even)

3 hrs. cr.

An introduction to the legislative process; problems of representation, organization of the legislature, participation, and proposals for improved organization. Emphasis is placed on legislatures at the national level. Prerequisite: Political Science 120.

2207-320—State Government (On demand)

3 hrs. cr.

A study of the general structure, theories, operation, and problems of state government, with special emphasis on the government of Missouri. Prerequisite: PSc 120.

2207-321—International Relations (F, Even)

3 hrs. cr.

A study of the present-day relations and problems among the states of the world and the major factors which underline and influence these relations. Prerequisite: Political Science 120.

2207-322—International Law (S,Odd)

A study of the rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedure employed in protecting their rights and performing their duties. Prerequisite: 6 hrs. in political science, preferably including Political Science 321, or permission of instructor.

2207-331—Comparative Government (F,Odd)

3 hrs. cr.

A study of the governments of selected European countries with special attention given to development of their political systems both in theory and practice. A comparison with American governmental institutions is emphasized. Prerequisite: Political Science 120 or 231.

2207-332—Non-European Comparative Government (S, Even)

A study of the governments of selected non-European countries with special attention given to the development of their political systems both in theory and practice. Prerequisite: 6 hours in political science, preferably including Pol. Sci. 331, or permission of the instructor.

2207-342—Municipal Government (On demand)

A study of the structure, legal status, functions and organization of municipal governments in America. Prerequisite: 6 hours in Political Science.

2207-350—Criminal Law (S)

A study of the origins, development, application, and enforcement of criminal laws, their purposes and functions, and the rights and duties of public officials and citizens in relation to local, state and federal laws. The course is interdisciplinary in nature bringing together law enforcement students and political scientists in attempting to achieve a common understanding of crimes and punishment. The casebook method is used and students taking the course for upper level credit must complete additional research in the field of criminal law as required by the instructor. Prerequisite: Political Science 120.

2207-411—Political Theory (F,Odd)

A survey of selected Western Political philosophies from early recorded history through the present time. Prerequisite: 6 hours in Political Science.

2207-412—Contemporary Political Thought (S, Even)

An examination of political ideas during the twentieth century. Prerequisite: 6 hours in Political Science.

POLITICAL SCIENCE

2207-421—Public Administration (On demand)

3 hrs. cr.

A study of the nature, scope, and development of the American administrative system, the theory of organization, staff and auxiliary agencies, the chief executive, administrative relationships, and science in administration. Prerequisite: 6 hours in Political Science.

2207-432—Constitutional Law (S,Odd)

3 hrs. cr.

Development of the Government of the United States through judicial interpretation of the Constitution. Prerequisite: Political Science 120.

2207-450—English Constitutional History (See History 450)

3 hrs. cr.

(See Firstory 450)

3 hrs. cr.

2207-420—United States Constitutional History (See History 420) 2207-498—Seminar in Political Science (demand)

3 hrs. cr.

A study of analytical reports, research and discussions, designed to give a broad knowledge of the discipline and methods of Political Science. Prerequisite: 9 hours upper division Political Science and senior standing.

2207-499—Independent Study (F,S)

An independent study course structured by the advisor with the approval of the department head and division chairman. Prerequisite: Advanced standing in the major field with a grade point average of three or better. Registration must be approved by the department head and division dean.

PSYCHOLOGY

Division of Education and Psychology

Banks, Combs, Dryer, Guilliams, Junkins, Starkey, Volskay

The Department of Psychology offers three degrees: Bachelor of Arts (AB) Bachelor of Science (BS), and Bachelor of Science in Education with a major in Psychology-Special Education (BSE). See specifics below and suggested order of study section at back of Catalog.

Bachelor of Arts Degree

The major for the Bachelor of Arts degree consists of 32 semester hours. A supporting area of 15 hours is required and may be selected from the natural sciences or mathematics. Also, a supporting area of 15 hours may be selected from sociology/anthropology, business, computer science or special education, but each must be accompanied by 5 hours of natural science beyond the general education requirement. Required courses in psychology are: Psy. 110, Psy. 311, Psy. 312, Psy. 411, Psy. 451, Psy. 452. A minor or area of concentration as support to another major requires 21 hours of psychology and must include Psy. 411.

Bachelor of Science Degree

A minimum of 31 hours in Psychology and a minimum of 20 hours in a supporting area **above** the General Education Requirements are required for the BS degree in Psychology. Required Psychology courses are: 110, 311, 312, 411, 442, 451, 452 and 498 (six hrs., three specifically in experimental design,

and three in a selected topic related to students' supporting area). Supporting areas may be chosen from the following departments with specific courses to be selected with the advice and consent of the psychology faculty in order to meet individual needs: Biology and/or Chemistry, Biology and/or Physics. Chemistry and/or Physics, Math and/or Computer Science, Computer Science and/or Business, Marketing & Management, or Law Enforcement.

Bachelor of Science in Education with a Major in Psychology-Special Education

Students who plan to teach Psychology and/or Special Education in the secondary and/or elementary schools should work toward the BSE with a Major in Psychology-Special Education. Satisfactory completion of the degree requirements entitles the graduate to Missouri State Department of Education teaching certificates in Psychology and three areas of Special Education (EMR, LD, and Emotionally Disturbed). All students will make application for admission to the teacher education program as explained in the Education section of the Catalog. In addition to the General-Education Requirements for all baccalaureate degree candidates, specific requirements for all baccalaureate degree candidates, specific requirements for the BSE: Psy.-Spec. Ed. have been established. These requirements fall into three areas (1) 38 hours of Psychology: 110, 302, 310, 311, 312, 382, 411, 412, 422, 432, 442 and 451; (2) 24 hours of Special Education courses outside the Psychology Department: Education 312, 340, 403, 404, 405 and 470. HPER 340, and Speech 492; and (3) 15 hours of professional education outside the Psychology Department: Educ. 330, 331, 370, 402, 432 and 444.

Chemistry 101 or Physics 151, Biology 121 and Math 131 should be taken to fulfill the General Education Requirements in the natural sciences and mathematics respectively for all three degrees in the Department.

A minor consists of 21 semester hours and must include Psv. 411.

2001-100—General Psychology (F,S)

3 hrs. cr.

An introductory course, stressing the importance of the psychological mechanisms underlying all mental processes, such as sensation, perception, emotion, thinking, and learning. A General Education requirement course. Education and Psychology majors should substitute Psy. 110.

2009-110—Psychology of Human Development (F,S)

5 hrs. cr.

An intensive study of the science of psychology; genetic, physiological, intellectual, social, and personality principles and concepts as they affect child and adolescent development and behavior. Observation laboratory required. Approximately one-half the course same as Psy. 100. (Should be taken in place of Psy. 100 by education and psychology majors. Fulfills General Education Requirements.)

2001-120—Freshman Orientation (F,S)

1 hr. cr.

This course is designed to help the student become adjusted to the college environment. Beginning with personal adjustment and rules and regulations, the course broadens its scope to vocational orientation. It culminates with the advising and enrolling of the student in classes for the next semester. No credit toward psychology major.

2001-221—Psychology of Personal Adjustment (F)

3 hrs. cr.

A study of the basic problems of personality adjustment. Intended to aid the student in promoting better mental health for himself and to better understand the behavior of others.

2009-300—Child Psychology (F,S)

3 hrs. cr.

Behavior and growth patterns of children are studied. Psychological facts and principles which are necessary for the understanding of the child in his home and school environment. Prerequisite: Psy. 100.

2009-301—Adolescent Psychology (F,S)

3 hrs. cr.

A study of the development of the attitudes, interests, problems, and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy. 100.

0808-302—The Exceptional Child (F,S)

Understanding and guiding the exceptional child through study of child growth and behavior. How to recognize and deal with specific problems of exceptional children. Prerequisite: 5 hrs. Psy.

0822-310—Educational Psychology (F,S)

Study of the psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis placed on measurement, the nature of learning, and the environmental influences of behavior. Prerequisite: Psy. 110; or Psy. 100 and Psy. 200 or Psy. 210.

2007-311-Applied Statistics for the Behavioral and Natural Sciences (F)

The analysis and interpretation of data resulting from the conduct of experiments. Desk computer utilized for all techniques up to and including three-way ANOVA and multiple regression. Prerequisite: Psy. 100 or Psy. 110 and Math 110, 130 or 131.

2002-312—Experimental Psychology (S)

5 hrs. cr.

A laboratory course emphasizing the study of animal behavior by scientific methods. Stresses experimental design and research techniques. Prerequisite: Psy. 311.

2005-341—Experimental Social Psychology (F)

Study of the social behavior of the individual, interests and tendencies that grow out of the community life in terms of inter-group and inter-personal relationships. Prerequisite: Psy. 311.

2001-382—Introduction to Behavior Management (S)

An introductory course in the techniques of modifying human behavior through principles developed by learning psychology. Emphasis is placed on the design and implementation of the behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy. 110 or Psy. 100.

2002-411—Psychology of Sensation and Perception (F)

3 hrs. cr.

Nature of the perceptual processes and their relationship to the senses. A laboratory course. Prerequisite: 312 or consent of instructor.

0825-412—Measurement and Evaluation in Education and Psychology (F,S)

A study of test construction and item analysis. Practice in evaluating and selecting tests, in administering and scoring, and in the analysis and presentation of test results. Prerequisite: Psy. 310 or Psy. 311. (Offered in the professional semester for 2 hrs. only.)

2003-422—Theories of Personality (S)

3 hrs. cr.

This course is to present an organized summary of the major contemporary theories of personality. Relevant validation research and over-all evaluation of the application of each theory will be considered. Prerequisite: Psy. 100 or Psy. 110, and consent of instructor.

2001-432—Abnormal Psychology (S)

3 hrs. cr.

The nature and etiology of the various forms of behavior disorder, mental deficiency, and other deviations. Critical evaluation of current theories. Visits to hospitals. Prerequisite: Seven hours of psychology.

2010-Psy. 442—Physiological Psychology (S)

3 hrs. cr.

The study of brain function and brain-behavior relations with overviews of neuroanatomy, neurochemistry, nerve membrane potential, electical and chemical aspects of synaptic transmission, sensory and motor aspects of brain function, and the integrative aspects of brain function in relation to behavior. Laboratory included. Prerequisite: Bio. 121 and Psy. 312, or equivalent and consent of instructor.

0822-451—Psychology of Learning (F)

3 hrs. cr.

Designed to acquaint the student with the major theories of learning. The theories will be analyzed, compared, and evaluated in the light of current research findings in the area of human and animal learning. Laboratory included. Prerequisite: Psy. 310 or Psy. 311.

2001-452—History and Systems of Psychology (S)

3 hrs. cr.

A study of the various systems of psychology based on historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy. 311, or consent of instructor.

2006-471—Individual Testing (F)

3 hrs. cr.

A study of the group and individual intelligence tests with practice in the administering and interpreting of the scores. Emphasis is placed on the Binet and Wechsler Scales. Prerequisite: Psy. 412, or equivalent, and consent of instructor.

2006-472—Group Testing (S)

2 hrs. cr.

Practice in the administration of group tests. Emphasis is placed on interpretation of test scores, report writing, and reliability and validity studies. Prerequisite: Psy. 412 or consent of instructor.

2099-498—Seminar in Psychology (F,S)

1-3 hrs. cr.

The seminar meets regularly each week. Meeting time per week is equal to the number of credit hours determined by the department for a given semester. The course is designed to cover specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Frequently offered topics are: Behavior Modification, Biochemical Correlates of Learning and Memory, Advanced Applied Statistics, and Experimental Design and Applied Research Problems. Prerequisite: Advanced standing and consent of department head.

2099-499—Independent Study (demand)

1-3 hrs. cr.

An independent study course structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field. Registration in the course must be approved by adviser and department head.

SOCIOLOGY

Division of Arts and Sciences

Department of Social Science

Challman, Grant, Gubera, Tate

A Bachelor of Arts degree consists of 30 semester hours in sociology. The required courses are: Soc. 110, Soc. 210, Soc. 311, Soc. 321, Soc. 421, and Soc. 432. Within the 30 hours requirement at least 15 hours must be upper division courses. One course in general statistics or its equivalent is also required for completion of the A.B. program. An additional supporting area of 15 hours is required. A student selects this area in consultation with and by the approval of his advisor.

It is recommended that the student take Bio, 120 in satisfying general education requirements, or Bio. 100 and Bio. 202; or Bio. 100 and Soc. 152. Until a course in Computer Science for the Social Sciences is made available Comp. 100, Comp. 110 and Comp. 120 are suggested for students planning to go to

graduate school.

Sociology may be used as a 21 hour minor or 15 hour supporting area with certain majors. The Bachelor of Arts student selecting sociology as a minor or supporting area should consider required courses suggested for A.B. sociology majors as a guideline. It is recommended that Bachelor of Science in Education majors taking sociology as a minor or supporting area select Soc. 110, Soc. 121 and Soc. 210 plus upper division electives to satisfy the total hour requirements.

A social science major for the Bachelor of Science in Education degree, with emphasis in Sociology (Plan B), consists of 50 semester hours. The requirements are: Hist. 110, Hist. 120, Hist. 200, Hist. 205, or 210, and three upper division semester hours in U. S. History and three upper division semester hours in European History and Pol. Sci. 120, Econ. 201, Geo. 211, plus 3 hrs. geography elective; Soc. 321 and electives in Sociology, 18 hours. Nine hours of the Soc. electives must be upper division.

2208-110—Introduction to Sociology (F,S)

3 hrs. cr.

An introduction to the systematic study of society. The emphasis is on the major concepts of sociology and the scientific point of view in dealing with social phenomena.

2208-121—Family (F)

Development of family relationships throughout the life cycle. Attention is given to courtship and engagement as well as factors promoting satisfactory family relationships.

2208-152—Introduction to Anthropology (S)

3 hrs. cr.

Attention is given to both physical and cultural anthropology. There are comparisons between "preliterate" and "literate" cultures.

2208-210—Social Problems (F,S)

Study of "problem areas" and "social issues" in modern society. Considers personality adjustment, strains, family problems, forms of deviancy, and group conflict in a stimulated laboratory atmosphere. The latter part of the course explores "solutions" and social engineering programs. Prerequisite: Soc. 110.

2208-301—Sociology of Religion (F)

3 hrs. cr.

Study of religion as a social institution. Comparative religions considered briefly. Major attention is given to the relationship of religion to other social institutions in contemporary society. Prerequisite: 6 hours of sociology.

2208-311—Social Stratification (F)

3 hrs. cr.

Analysis of the sociological processes in relation to social situations and interpersonal behavior. Study of factors which account for differences in influence, power and social prestige. Prerequisite: Soc. 110 or permission of the instructor.

2208-321—Social Institutions (F)

3 hrs. cr.

An analysis of the basic social institutions of human society; comparing and contrasting the structure and form among the various cultures, emphasizing interdependence and effect upon human behavior. Prerequisite: 6 hours of sociology.

2208-331—Social Work I (F)

3 hrs. cr.

A study of the historical and philosophical development of social work theory including an analysis of the rationale and techniques used in social casework. Prerequisite: Soc. 110, Soc. 121, Soc. 210.

2208-332—Social Works II (S)

3 hrs. cr.

Examination of careers and agencies in the field of social work and practical experience in volunteer work with social work agencies. Prerequisites: Social Work I plus all prerequisites for it. (Soc. 331).

2208-341—Social Psychology (F)

3 hrs. cr.

(See Psy. 341.)

2208-351—Criminology (F)

3 hrs. cr.

Examines the social-cultural concepts of crime and the theories, agencies and institutions which deal with offenders. Particular attention is given to treatment of the offender, the causation of criminal and anti-social behavior, as well as to programs of crime prevention. Prerequisite: Soc. 110 or permission of the instructor.

2208-352—Group Dynamics (S)

3 hrs. cr

A study of the processes underlying group interaction and action emphasizing the importance of leadership and communication in social organization. Prerequisite: Soc. 110.

2208-361—Populations Problems (F)

3 hrs. cr.

The changes in population are stressed through an analysis of birth rates, death rates, and migrations. Demographic and exological factors are stressed in relation to social stratification, ethnic and minority groups, and cultural settings. Prerequisite: 6 hours of sociology.

2208-362—Social Pathology (S)

3 hrs. cr.

Problems of social disorganization and deviant behavior in industrial societies. Deals with such topics as dilemmas of work and leisure, problems of conformity and dissent, the clash of popular myths and social realities, mental illness, alcoholic and narcotic addictions, sexual deviation, suicide, bohemianism, youth protests, alienation, anxiety, and anomie; the ambiguity of "normality."

2208-382—Minority Groups and Race Relations (S)

3 hrs. cr.

An examination of racial and cultural minorities in contemporary American society with special attention given to an analysis of prejudice and discrimination. Prerequisite: Soc. 110.

2208-402—The Community—Rural and Urban (S)

3 hrs. cr.

Survey of the operation of social processes in groups which share common bonds of territory and cultural interests. Limited attention to the international community. Major attention to the American scene, including the regional, rural, urban, ethnic, and status communities. Prerequisite: 9 hours of sociology.

2208-412—Juvenile Delinquency (S)

3 hrs. cr.

Consideration is given to environment and social background for the study of juvenile delinquency. Emphasis is placed upon factors of causation as revealed through personal, family and community situations conditioning delinquent behavior; analysis of concrete cases of juvenile delinquency; and examinations of current methods of dealing with juvenile offenders and programs for the prevention of delinquency. Prerequisite: Soc. 110, Soc. 351.

2208-421—Sociological Theory (F)

3 hrs. cr.

Classical and contemporary social philosophy related to the current theoretical and applied systems of sociology. A study of social thought from Comte to Parsons, utilizing interpretation and evaluation of these philosophies as they relate to the present social conditions. Prerequisite: 9 hours of sociology.

2208-432—Sociological Investigations (S)

3 hrs. cr.

Group and individual research in the scientific and methodological applications of sociology through quantitative and qualitative techniques of obtaining social data. Critical evaluation of the designs and methods used in sociological research and fieldwork. Prerequisite: 12 hours of sociology.

2208-441—Collective Behavior (F)

3 hrs. cr.

A study of the behavior of people in large groups; collective interstimulation and emotions, crowds, audiences, and publics; mass stimuli and mass response.

2208-498—Seminar in Soc. (demand)

3 hrs. cr.

A seminar for upper division sociology majors. The topics covered and methods used will place emphasis on student-instructor interest, desire to pursue in-depth research, and ability to assimilate topics. It will include areas not already treated in other sociology courses. Permission of instructor required.

2208-499—Independent Study (F,S)

1-3 hrs. ci

An independent study structured by the adviser with the approval of the department head and division chairman. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Registration in the course must be approved by the department head and division dean.

SPEECH

Division of Arts and Sciences

Cornwell, Rhodes

A major in Speech for the Bachelor of Arts degree consists of 40 semester hours. Required courses for a major emphasis in Speech are Sp. 101, Sp. 102, Sp. Cor. 131, Sp. 210, Sp. 212, Sp. 300, Sp. 302, Sp. 311, Sp. 498, Forensics Workshop 8 hours, Th. 331, Th. 332, Th. 351.

A major emphasis in speech and theatre in the Bachelor of Science in Education curriculum, one of two teaching fields (Plan A), consists of 30 semester

hours of speech and theatre. Either theatre or speech may be emphasized. Required courses for a major emphasis in Speech are Sp. 101, Sp. 102, Sp. 210, Sp. 310, Sp. 311, Sp. 498, Forensics Workshop 6 hours, Th. 331-332, Th. 351. See education section for teacher education requirements (page 93).

A major in speech and theatre as one teaching field (Plan B) includes 37 semester hours. Required courses with an emphasis in Speech are Sp. 101, 102, 210, 300, 310, 311 and 498, Forensics Workshop 8 hours, Th. 331-332, Th. 351, Sp. Cor. 131.

1506-100—Speech Techniques (F,S)

3 hrs. cr.

A practical course designed to improve or to develop self-expression. Emphasis is placed on development of principles of effective oral communication.

1506-101—Argumentation and Debate (F)

3 hrs. cr.

A study of the modern forms of evidence, evaluation, and argument, and of methods of refutation and ethical relationships of these methods in a free society.

1506-102—Public Speaking (S,Odd)

3 hrs. cr.

Practice in preparation and delivery of impromptu and extemporaneous speeches. Prerequisite: Sp. 100.

1506-121, 122, 221, 222, 321, 322, 421, 422

Forensics Workshop (F,S)

(per sem.) 2 hrs. cr.

A practicum in the area of forensics, including research, organization, and presentation of the current debate proposition along with the development and presentation of individual events.

1506-210—Discussion Techniques (F,S)

3 hrs. cr.

Studies in the field of group discussion designed to point out the different types of discussion through participation.

1506-212—Oral Interpretation (S,Odd)

3 hrs. cr.

Study and application of principles and techniques of oral reading. Includes analysis of different types of literature with emphasis upon platform presentation of prose and poetry.

1506-300—Speech Composition (F,Odd)

3 hrs. cr.

The study and practice of organization, composition, delivery, and analysis of speeches for individual enrichment.

1506-302—Business and Professional Speech (F,S)

3 hrs. cr.

A practical course designed to meet the speaking needs of business and professional people.

1506-311—History and Criticism of

Modern Public Address (demand)

3 hrs. cr.

A critical study of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs since 1918. A lecture, reading, and discussion course.

1506-498—Seminar—Studies in Discussion (S, Even)

3 hrs. cr.

Studies in group thinking and group reaction with a view to improving discussion and conference techniques in the classroom, business and professional situations.

1506-499—Independent Study in Speech (F,S)

1-3 hrs. cr.

An independent study course structured by the adviser with approval of the department head and division chairman. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Registration must be approved by adviser, department head and division dean.

SPEECH CORRECTION

0815-131—Voice and Articulation (F,Even)

3 hrs. cr.

3 hrs. cr.

Techniques for improving the speaking voice. Attention to phonetics, articulation, pronunciation, and general expression.

0815-371—Introduction to Speech Science (demand)

A study of the anatomy, psychology, and physics of speech including the examination of key research on the scientific bases of speech, and the theories and controversial concepts for personal identity, and for social control. **Recommended for all students preparing to teach.**

0815-492—Principles and Techniques of Speech Correction (S)

A study of the nature, causes, diagnosis and treatment of speech defects of children and adolescents, primarily for the classroom teachers. Recommended for all students preparing to teach in any field.

THEATRE

Division of Arts and Sciences

Brietzke, Bowman, Hunt

A major in Theatre for the Bachelor of Arts degree consists of 40 semester hours. Required courses for a major emphasis in theatre are theatre lab 4 hours, Th. 331, 332, 341, 351, 362, 372, 422, 431, 441, Sp. 101, Sp. 212, Sp. 210, or Sp. 498.

A major emphasis in speech and theatre in the Bachelor of Science in Education curriculum, one of two teaching fields (Plan A), consists of 31 semester hours of speech and theatre. Either theatre or speech may be emphasized. Required courses for a major emphasis in theatre are theatre lab 4 hours, Th. 331-332, 342, 351, 362, 372, Sp. 101, 212, Sp. 210 or Sp. 498. See education section for teacher education requirements (page 93).

A major in speech and theatre as one teaching field (Plan B) includes 37 semester hours. Required courses with an emphasis in theatre are theatre lab 4 hours, Th. 331-332, 342, 351, 362, 372, 431, Sp. 101, 212, 300 and 498.

THEATRE

1007-Th. 101, 102, 201, 202, 301, 302, 401, 402-Theatre Performance (F,S) 1 hr. cr.

The performance of a major role in a theatre production. A student may accumulate up to 3 hours of credit. Credit is applied after departmental evaluation and approval at the end of each semester.

1007-110—Theatre Appreciation (F,S)

3 hrs. cr.

Survey of contributions to dramatic production of all ages by playwrights, directors, designers. Appreciation of dramatic form and style. A humanities course for the non-drama major.

1007-121, 122, 321, 322—Theatre Laboratory (F,S)

(per sem.) 2 hrs. cr.

A laboratory and, whenever possible, lecture course devoted to the mounting of major productions.

1007-201—Summer Theatre Production (demand)

6 hrs. cr.

Includes active participation in the summer theatre presentations. Special instruction in voice and diction, movement, acting, and basic stagecraft.

1007-331, 332—History of the Theatre (F,S)

(per sem.) 3 hrs. cr.

331 History and study of the development of theatre and theatre arts; forms, style, and structure of drama from the Greeks to the Elizabethan era; (332) Jacobean to contemporary American theatre.

1007-342—Beginning Acting (F)

3 hrs. cr.

A basic performance and theory course, analysis and creation of a role; stage movement and pantomine; basic stage techniques. Problems in stage speech and dialects for the stage.

1007-351—Play Production (F)

3 hrs. cr.

Techniques and problems of mounting a play. Includes a basic analysis of the construction of the drama, along with basic elements of costume, stage-craft, and make-up.

1007-362—Stage Costume and Design (S)

3 hrs. cr.

Survey of available materials, period costume, and practical experience in the rendering of costume designs to actual stage costumes.

1007-372—Directing for the Stage (S)

3 hrs. cr.

Study of the skill and role of the director, script analysis, casting, production administration, and director-actor relationships. Each student enrolled will have a directing project or will assist the staff as student director for a major production.

1007-422—Styles in Acting and Interpretation (S,Odd)

3 hrs. cr.

Lecture and laboratory study of physical manners, posture, movement, rhythm, gesture, and vocal qualities in relation to various periods of theatre presentation. Prerequisite: Dr. 341.

1007-431—Creative Dramatics (F)

3 hrs. cr.

A study of drama for children with emphasis upon the awakening of the creative imagination through various types of literature.

1007-441—Stage Design (F)

3 hrs. cr.

Principles and history of scenic design, sketching, rendering, scene painting techniques. Study of set design related to various styles of drama. Stage lighting approached from practical and aesthetic values.

1007-499—Independent Study in Theatre (F,S)

1-3 hrs. cr.

An independent study course structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Registration in the course must be approved by adviser, department head, and division dean.

Combined/Affiliated Degree Programs

Missouri Southern State College has established several combined degree programs whereby the student completes a structured number of academic hours under the regulations established by the College and combines with this the satisfactory completion of the professional/occupational curriculum from a school with which the College has an agreement. Some of the combined programs lead to a Bachelor's (four-year) degree, while others lead to an Associate (two-year) degree. A description of these programs follows:

BACCALAUREATE DEGREE PROGRAMS (Basic Requirements for All Programs)

 Complete 94 semester hours at Missouri Southern State College. Transfer credit will be considered, but the last 30 of the 94 required semester hours must be earned at MSSC.

2. The 94 hours must include the completion of the general education requirement plus the specialized courses required by the program in

which the student is enrolled.

3. Sixteen out of the 94 semester hours must be upper division (300 and

400 level courses).

4. All applicable "Requirements for Graduation" as stated in the Missouri Southern State College catalog must be met including the application for degree candidacy, the graduation fee, and the filing of credentials with the Placement Office.

A transcript from the institution with which a combined degree agreement is arranged must be provided in order to complete the require-

ments for a degree.

Engineering:

A combined degree may be arranged with approved and accredited colleges of engineering when the two institutions agree on a student applicant for the program. The student must complete three semesters at the school of engineering at "C" average or above and be certified eligible to continue in the engineering school. The Vice President for Academic Affairs negotiates the agreements with other institutions.

Medicine:

The Missouri Southern State College student applying for a combined degree with an approved and accredited school of medicine must normally have a "B" or better grade average to be considered. The Vice President for Academic Affairs will work out a combined degree with the school of medicine if the candidate is accepted for admission into the medical school. The student must complete three semesters in the medical school with a grade average of "C" or above and be certified eligible to continue in the school of medicine.

law:

A combined degree may be arranged with approved and accredited colleges of law when the two institutions agree on a student applicant for the program. The Missouri Southern State College student applying for a combined degree with an approved and accredited school of law must normally have a "B" or better grade average to be considered. The Vice President for Academic Affairs will work out a combined degree with the school of law if the candidate is accepted for admission into the law school. The student must complete three semesters in the law school with a grade of "C" or above and be certified eligible to continue in the school of law.

Medical Technology:

The Bachelor of Science in Medical Technology, with emphasis in biology and chemistry is granted to students who complete this program of study satisfactorily. The college has agreements with St. John's School of Medical Technology, Joplin; Antaeus Lineal Associates, Fayetteville, Arkansas; Baptist Medical Center, Little Rock, Arkansas; Lester E. Cox Medical Center School of Medical Technology, Springfield, Missouri; Research Hospital, Kansas City, Missouri; Sparks Regional Medical Center, Fort Smith, Arkansas and Baylor University Medical Center, Dallas, Texas. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student.

The student makes separate application to the school of medical technology which bases its admission decision on its own academic and personal standards. A person is a member of only one student body at a time. He is eligible for the benefits of the student body of which he is a member, but he does not hold membership in both student bodies simultaneously.

Course requirements, in addition to the general education requirements for the Bachelor of Science degree, are Bio. 121, 231, 305, 306, 318 and 456, Chem. 101, 102, 162, 201 and 300, and Phy. 151 and 152, and Math 140.

Environmental Health Technology:

The Environmental Health Technology Curriculum for the Bachelor of Science degree is an affiliation program in which students complete the Missouri Southern State College requirements for the combined degree and take the applied course work and special laboratory training at the Water and Wastewater Technical School at Neosho, Missouri. The curriculum is designed so that the student may complete requirements at either school first. Some variation in course requirements at each institution are made in consideration of the background of the student and whether work is completed at the Water and Wastewater Technical School before entering Missouri Southern State College or vice versa. In either case, the student must satisfactorily complete 94 academic hours as indicated above and satisfactorily complete the prescribed 36 week curriculum at the Water and Wastewater Technical School in Neosho, Missouri.

Fees for these programs are the same as fees for any other students at the respective schools. These fees are stated in the current catalogs of each institution.

The student holds membership in only one student body at a time.

The Bachelor of Science degree course requirements, in addition to the general education requirements, are Bio. 101, Bio. 112, Bio. 122, Bio. 312, Bio. 314, Bio. 431 or approved science, Bio. 442, Chem. 101, Chem. 102, Chem. 162, Chem. 201, Chem. 300, Acct. 101, Econ. 201, MM 350 and MM 352.

ASSOCIATE OF SCIENCE PROGRAMS

(Requirements Basic to All Associate of Science Combined Degrees)

1. The completion of 32 academic hours, the last 15 of which must be taken in residence at Missouri Southern State College.

2. The minimum cumulative and major field grade point average must

be 2.0 or above.

3. The completion of the general education requirements as outlined in the catalog for the Associate of Science degree.

ASSOCIATE OF SCIENCE

4. The student must satisfactorily complete the occupational/professional courses of the affiliated occupational or professional school as required in the agreement between the two institutions.

5. All applicable "Requirements for Graduation" as stated in the Missouri Southern State College catalog must be met including the application for degree candidacy, the graduation fee, and the filing of credentials with the Placement Office.

6. A transcript from the institution with which a combined degree agreement is arranged must be provided in order to complete the require-

ments for a degree.

ENVIRONMENTAL HEALTH TECHNOLOGY

Division of Technology

The Associate of Science degree in Environmental Health Technology is in affiliation with the Water and Wastewater Technical School at Neosho, Missouri. The combination of Missouri Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in Environmental Health Technology, plus the completion of a minimum of 36 weeks of approved study at the Water and Wastewater Technology nical School will qualify the student for the Associate of Science degree.

The specific courses required at Missouri Southern, in addition to the general education requirements, are Chem. 101, Chem. 102, Bio. 101 and 211 (or Bio. 312 and Bio. 314 for students completing courses at the Water and Wastewater Technical School prior to attending Missouri Southern State College).

Note that the student may complete the requirements at either school first. He is, however, a member of only one student body at a time.

RADIOLOGIC TECHNOLOGY

Division of Technology

The Associate of Science degree in Radiologic Technology is in affiliation with St. John's School of Radiologic Technology. It combines successfully completed studies at St. John's School, or at other accredited schools of Radiologic Technology with which an agreement is made, and the prescribed academic curriculum at Missouri Southern State College. Upon successful completion of the curriculum, the individual is eligible to take the National Registry examinations to become a registered Radiologic Technologist.

The Associate of Science in Radiologic Technology requires, in addition to the general education courses (see page 54), all Radiology courses, Bio. 221, Psy. 221, and Chem. 100. Applicants who have not met the prerequisites for

Bio. 221 must complete them before being admitted to the program.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in Radiology courses.

Students who are already registered radiologic technologists may also enter

this program.

Credit equal to the credit given at the time radiologic technologists enter Missouri Southern for Radiological courses is granted the individual. A minimum of 30 additional academic semester hours is required. This credit would include the general education requirements for the Associate of Science degree plus a concentration of courses in one of the subject-matter areas of business (Accounting and Secretarial Procedures or Business Management), behavioral sciences, or natural science (concentration in either Biology, Chemistry, or Physics).

Below are the courses taught at St. John's School of Radiologic Technology and which become a part of Missouri Southern State College's Associate of Science degree in Radiologic Technology.

COURSE DESCRIPTIONS

5207-101—Introduction to Radiology

3 hrs. cr.

An overview of the organization, function, supervision, and financing of a radiology department including the relationship with other hospital departments. The course includes a history of x-ray, ethical principles, and legal aspects of technology and elementary radiation protection. Five hours of lecture and five hours of lab per week.

5207-111—Medical Terminology

5 hrs. cr.

Provides a background in the language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Every attempt is made to relate medical roots to everyday English words. A survey of medical and surgical diseases is included. Five hours of lecture per week.

5207-121—Patient Care and Special Procedures in Radiologic Technology

3 hrs. cr.

Routine and special care of the patient. The medical team concept of patient care is stressed. Includes sterile techniques, preparation and use of contrast materials. Five hours of lectures and demonstrations per week.

5207-132—Principles of Radiographic Exposure

3 hrs. cr.

The fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on dark room chemistry and technique are also included in this course. Five hours of lecture and demonstrations per week.

5207-142—Radiographic Positioning I

3 hrs. cr.

Basic radiographic positioning including both standard and specialized positions of the extremities and the spine. Film critique is included. Five hours of lecture and demonstrations and five hours of clinical lab per week.

5207-152—Osteology

3 hrs. cr.

The structure and function of the human body with emphasis on organs, osteology, and topgraphic anatomy. Five hours of lecture and demonstrations per week.

5207-160—Film Critique

2 hrs. ci

Develops a student's ability to evaluate x-ray films as to technical quality and diagnostic interpretation. Five hours of lecture and demonstrations per week. Course meets for 14-week session.

5207-170—Radiologic Physics I

3 hrs. cr.

The physics of radiology. The physical principles of x-ray production, radiographic exposure, film density and construction, fluorescent screens, etc. Basic equipment maintenance is included. Course meets for 14-week session. Five hours of lecture and demonstration and five hours of lab per week.

5207-180—Practicum in Radiology I

5 hrs. cr.

Designed to develop the knowledge and skills necessary to produce x-ray films with speed and accuracy. Course meets for 14-week session. Twenty-five hours of lab per week.

RADIOLOGIC TECHNOLOGY

5207-241—Radiographic Positioning II

3 hrs. cr.

An in-depth study of routine and special views of the skull and facial bones. Film critique is included. Five hours of lecture and demonstrations and five hours of lab per week.

5207-271—Radiologic Physics II

3 hrs. cr.

Physical principles of radiation therapy and isotopes. Includes theory, application and basic equipment maintenance. Five hours of lecture and five hours of lab per week.

5207-252—Radiographic Positioning III

3 hrs. cr.

Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Includes film critique. Five hours of lecture and demonstrations and five hours of lab per week.

5207-282—Practicum in Radiology II

3 hrs. cr.

A continuation of Rad. 180. Ten hours of lab per week.

5207-290—Practicum in Radiology II

5 hrs. cr.

Intensive clinical experience in regular working conditions under the close supervision of a Radiologist and an experienced radiation therapy technologist. Course meets for a minimum of 14 weeks. Thirty-five hours of lab work.

5207-299—Advanced Radiology

3 hrs. cr.

A comprehensive review of the field of Radiologic Technology including innovations, trends and anticipated advancements in the field. Course meets for a minimum of 14 weeks. Five hours of lecture per week.

A Combined One-Course Program

AVIATION

Division of Technology

This course is offered in affiliation with the Aero Southwest Company of Carthage, Missouri and the Mizzou Aviation Company of Joplin, Missouri.

COURSE DESCRIPTION

5302-200—Basic Pilot Training

5 hrs. cr.

An integrated course designed to meet ground school and flight training requirements for eligibility to take Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, course requires approximately 40 hours of dual and solo flight and check flight. Credit awarded when FAA certificate is obtained. Special fees and third class medical certificate required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

PRE-PROFESSIONAL AND TECHNOLOGY CURRICULA

Pre-Professional (Associate of Arts Degree)

The Junior College transfer curricula are designed for students who desire later to work for a baccalaureate degree at Missouri Southern State College, or to transfer to other baccalaureate degree granting institutions. It should be clearly understood by the student that all such institutions have their own

ONE-COURSE PROGRAM

entrance requirements, and any student interested in such prospective transfer should consult the latest catalogues of those colleges. The curricula set forth in this section under various headings are ordinarily sufficient to satisfy requirements of other colleges and universities.

Students beginning their education at Missouri Southern State College with the intention of earning a baccalaureate degree should study the general

education and major requirements for that degree.

The following programs for students planning to enter the fields of Agriculture, Dentistry, Engineering, Journalism, Medicine, Optometry, and Pharmacy lead to the Associate of Arts degree and are normally transferable to other institutions. Each takes two years and 62 or more semester hours to complete. Programs applicable to other fields may be planned in accord with the criteria stated on page 54. The curricula requirements are:

1. Agriculture.

a. General Education (see page 54).

- b. Five semester hours each in chemistry, botany or zoology, and economics.
- c. Three semester hours each in algebra, accounting, psychology (general), and sociology.
- d. Ten hours of electives, selected according to transfer needs.

e. All courses must be approved by the adviser.

2. Dentistry.

a. General Education (see page 54).

- b. Eight hours of chemistry, five of zoology, five of microbiology, and eight of physics.
- c. Six hours of electives, selected according to transfer needs, check with the Biology Dept. concerning specific transfer needs.

3. Engineering.

The student entering pre-engineering must present four high school units in mathematics and one unit in a laboratory science.

a. General Education (see page 54).

b. Mathematics 150, 250, and 260.	(15 hrs.)
c. Chemistry 101 and 102	(8 hrs.)
d. Drafting 110 and 120*	(6 hrs.)
e. Physics 250 and 260	(10 hrs.)
f. Electives	(4 hrs.)
*Drafting 120, Descriptive Geometry, is not required	for chemical or

4. Journalism.

The student planning to enter a journalism school must complete 60 credit hours in Arts and Science, including the following specific requirements:

electrical engineers.

a. General Education (see page 54).	
b. One foreign language	(13 hrs.)
c. Economics	(3 hrs.)
d. U. S. Government	(3 hrs.)
e. English Literature	(6 hrs.)

f. Electives should be chosen from sociology, psychology, philosophy, mathematics, accounting, English and journalism.

5. Medicine.

a. General Education (see page 54).

b. One foreign language (15 hrs.)

TECHNOLOGY

(15 hrs.)

(10 hrs.)

(8 hrs.)

(8 hrs.)

(3 hrs.)

(8 hrs.)

	e. Check with the Biology Dept. concerning specific transfer no	hrs.) eeds.
5.	c. Calculus d. Zoology e. Chemistry f. Physics g. General psychology b. Electrical control of the control of th	hrs.) hrs.) hrs.) hrs.) hrs.) hrs.)
	Pharmacy. a. General Education (see page 54). b. Algebra and trigonometry (5)	hrs.)

TECHNOLOGY

(Associate of Science Degree)

The courses of study leading to the Associate of Science degree in Automotive Technology, Computer Science, Dental Hygiene, Drafting and Design, Law Enforcement, Machine Technology, Nursing and Radiologic Technology are described in the "Curriculum" section of this catalog under their respective headings.

The suggested Orders of Study for these programs are found immediately following this section.

Additional two-year programs leading to the Associate of Science degree are available in Accounting, General Business, and Secretarial Science.

1. Accounting.

The curriculum prepares students to enter public accounting firms, industry, banking and government service as accounting assistants or accounting clerks. The degree requires completion of:

a. General education (see page 54).

c. Chemistry, qualitative analysis

d Physics

c. Zoology and botany

g. Qualitative and quantitative analysis

d. General chemistry

e. Physics

f. Accounting

6

7

- b. Acct. 101, 102, Acct. 212, Acct. 310, Acct. 401, Econ. 201, 202, GB 101, GB 121, GB 301, MM 350, and OA 102 or OA 200.
- Five hours of electives which should be selected from business law, auditing, statistics, or mathematics.

2. General Business.

In this program the student prepares for supervisory and managerial positions, or for operating a private business. It provides the fundamental knowledge of marketing and management required for effective business operations. Practical techniques, skills of communication, and good human relations are developed. The degree requires completion of:

TECHNOLOGY

a. General education (see page 54).

b. Acct. 101, 102, Econ. 201, 202, GB 101, GB 301, 302, MM 300, MM 350.

c. Fourteen credit hours of electives selected from the business areas of personnel management, advertising, retailing, salesmanship, and business communications. Selections from psychology are also valid.

3. Secretarial Science.

The secretarial science program helps prepare the student for the professional secretary position. The degree requires completion of:

a. General education (see page 54).

b. Acct. 101, GB 101, GB 301, OA 200, OA 220, and OA 230.

c. Electives may include prerequisite courses to OA 200 and OA 220 if needed. Others should be selected from business organization and management, accounting, economics, geography, business communications, general psychology, and office machines.

Certificate of Achievement:

Secretarial-Typist.

A one-year secretarial certificate program that provides students with training essential to obtaining employment as a secretarial-typist. Successful completion of the required curriculum qualifies the student to a Certificate of Achievement.

The certificate requires the completion of: Acct. 101, Eng. 101, GB 101, GB 110, GB 121, GB 320, OA 200, OA 210, OA 220, and Speech 100.

THE DIVISION OF CONTINUING EDUCATION

The Division of Continuing Education is administered by the Director of Continuing Education. It is designed to offer credit and non-credit courses that are not in the regular curriculum, but which will meet community and societal needs. Business, industry, and civic leaders are requested to make known the educational needs of their areas. The college will do its best to help meet those needs.

The Division of Continuing Education is supported by moderate student fees paid by all participants. The course fees are determined primarily by the length of the class.

Courses offered in the Division of Continuing Education may or may not count toward an associate or baccalaureate degree. Students wishing to apply continuing education semester hour credit toward a college degree must petition for the credit. Petitions are available in the Continuing Education Office.

New courses are announced on a weekly basis. The announcements are carried by various news media.

All Continuing Education enrollment is conducted by the Office of Continuing Education located in Room 105 of Hearnes Hall. A permanent record is kept in the Continuing Education Office for each student. Students will be provided copies of their records upon request.

Persons wishing additional information are urged to call, write, or visit the

Continuing Education Office.

ASSOCIATE OF SCIENCE **ACCOUNTING MAJOR** Suggested Order of Study

MAJOR CODE 118

1st Semester	FIRST Y	EAR 2nd Semester	
Course Acct 101 Elementary Accounting Accounting I Eng 101 Composition GB 101 Introduction to Business GB 121 Office Machines Math 30 Inter Algebra or Math 110 Psy 120 Freshman Orientation	3 3 3 3 1 1 16	Course Acct 102 Elementary Accounting Accounting II (Acct 101) Gen Educ [Psy 100 or Soc 101] Sp 100 Speech Techniques OA 102 Intermediate Typewriting Gen Educ [PSc 120 or Hist 110] HPER 101 Intro of Physical Activities	3 3 3 3 3 3 2 <u>2</u> 17
	SECOND	VEAD	
Acct 212 Intermediate Accounting (Acct 102) Acct 310 Cost Accounting (Acct 102) GB 301 Business Law I Gen Ed (Science) Econ 201 Principles of Economics	3 3 4-5 3 16-17	Acct 401 Tax Accounting (Acct 102) MM 350 Business Org & Management Econ 202 Principles of Economics Gen Ed [Humanities or Fine Art] Elective in Business	3 3 3 3 3 75

() Prerequisite
[] Dept Recommendation

For Additional Information Contact: Mr. C. Finke — Phone - 238 Office - 201 Business Bldg.



1st Semester

[] Departmental recommendation

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION Major Code 70 ACCOUNTING MAJOR Suggested Order of Study

2nd Semester

Hours Course Hours Acct 101 Elem Accounting I Acct 102 Elem Accounting II 3 Eng 101 Composition 3 (Acct 101) Elective [Psy 100 recommended] 3 Eng 102 Composition (Eng 101) 3 HPER 101 Intro to Physical Activity I 2 Hist 110 U.S. History 1492-1877 3 GB 101 Intro to Business 3 Math 131 Finite Math 3 Psy 120 Freshman Orientation 1 Electives Electives 17 17 SOPHOMORE Acct 212 Intermed Acct I (Acct 102) 3 Acct 301 Intermed Acct II (Acct 212) 3 Econ 201 Principles of Economics 3 Econ 202 Principles of Economics 3 Gen Ed [Bio 101 Gen Biology or equiv] 4 Gen Ed — [Phys 100 Fund of Physical Gen Ed [Speech] 3 Sci or equiv] 5 PSc 120 Government: National. HPER 160 Personal Health 2 State, Local 3 GB 320 Business Communications 3 16 -See Dean of Business Administration 117 Busi. Bldg. for assignment 16 of upper division advisor.

FRESHMAN

	JUN	IIOR	
Acct 310 Cost Accounting	3	Acct 302 Advanced Accounting	
GB 301 Business Law	3	GB 302 Business Law II	
MM 300 Principles of Marketing	3	GB 321 Business Statistics (Math 131)	
Econ 300 Money and Banking	3	Econ 350 Corporate Finance	
Gen Ed — [Fine Arts]	3	Gen Ed — [Humanities—Fine Arts]	
	15		

SENIOR

Acct 411 Auditing	3 Elective in Accounting
Acct 401 Tax Accounting	3 MM 352 Personnel Management
MM 350 Business Org. and Management	3 Electives
Gen Ed — [Humanities]	3
Electives	3
-Apply for Graduation 100 Hearnes Hall	15 For Additional Information Contact:
	Mr. Finke
() Prerequisites	Office - 201 Business Building

AGRICULTURE — PRE Suggested Courses

Phone 238

MAJOR CODE 131

Requirements for a degree in Agriculture vary from one college to another. In most cases a student may attend MSSC for four semesters and complete the requirements for an Associate of Arts degree prior to transfer. It is the responsibility of the student to contact the college that will confer a Bachelor's degree in Agriculture for a list of recommended courses that will apply toward the degree at the second college.

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
Bio 101 General Biology	4	Bio 112 Botany OR	
Math 130 College Algebra	3	Bio 122 Zoology	3
Eng 101 Composition	3	Eng 102 Composition	3
*Gen Educ	5	Chem 100 Intro to Chem OR	
Psy 120 Freshman Orientation	1	Chem 101 General Chem I	5
	16	*Gen Educ	6
			<u>6</u> 17

*See list of General Education requirements for Associate of Arts degree.

For Additional Information Contact: Dr. Sam Gibson Office 308 - D Science Building Phone 226

BACHELOR OF ART DEGREE ART MAJOR Suggested Order of Study

MAJOR CODE 40

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
Art 100 Art Composition	3	Art 121 Ceramics (Art 100 or 110)	3
Art 110 Intro to Art	3	Art 131 Drawing Tech (Art 100) OR	3
Eng 101 Composition	3	Art 211 Sculpture (Art 100 & 121)	
Hist 110 or 120 U.S. History	3	Eng 102 Composition (Eng 101)	3
Gen Ed [Literature]	3	[Psy 100 Gen Psychology]	3
HPER 101 Physical Activity	2	Math 110 Intro to Col Math or equiv	. 3
Psy 120 Freshman Orientation	1		· 3 15
	18		
	SOPHO	MORE	
Art 132 Intro to Design	3	Art 232 Paint Tech (100, 131)	3
Art 211 Sculpt Tech (100, 121)	3	Art Electives	6
Art 230 Basic Form (100)	3	Bio 101 Gen Bio or equiv.	4
Gen Ed [Speech 100 or equiv.]	3	PSc 120 Government	3
Gen Ed [Phys 100 Fund of Phys Sc	i] 5	PE Act or Personal Health	2

17

Art Dept. Requirements for Bachelor of Art with an Art Major.

Art 100 Art Composition

Art 121 Ceramics (Art 100 or 110)

Art 131 Drawing Techniques (Art 100)

Art 132 Intro to Design

Art 211 Sculpture Tech (Art 100, 121)

Art 230 Basic Form (Art 100)

Art 232 Painting Techniques (Art 100, 131)

Art 301 & 302 Art History

Art 312 Beginning Printmaking (Art 131)

Art 490 Senior Studio (Senior standing)

Plus 18 credit hours approved by the upper division Art Advisor.

Complete 10 cr. hrs. of same foreign language.

For Additional Information Contact: Mr. Darral Dishman Office 303 Art Building Phone 263

—See Head of Art Dept. for assignment of upper division advisor - 303 Art

BACHELOR OF SCIENCE IN EDUCATION ART MAJOR

MAJOR CODE 20

Plan B-Single Teaching Field Suggested Order of Study

1st Semester	FRESHM	1AN 2nd Semester	
Course H Art 100 Art Composition Art 110 Intro to Art Eng 101 Composition	3 3 3	Course Art 121 Ceramics (Art 100 or 110) Art 131 Drawing Techniques OR Art 211 Sculpture	Hours 3
Hist 110 or 120 U.S. History Gen Ed [Eng 180 or 181] Gen Ed [HPER 101] Psy 120 Freshman Orientation	3 3 2 1 18	Techniques (Art 121) Eng 102 Composition (Eng 101) Psy 110 Psy of Human Development Gen Ed [Math 110 or equiv.]	3 3 5 3 17
	SOPHOM	IORE	
Art 132 Intro to Design OR Art 230 Basic Form (Art 100) Art 211 Sculpture Technique (Art 121) Art 220 Art Education Gen Ed [Speech] Gen Ed [Bio 101 or equiv.]	3 3 3 4 16	Art 232 Painting Technique (Art 131) Gen Ed [Polsc 120] Gen Ed [HPER 160] Gen Ed [Phys Sci 100 or equiv.] Gen Ed [Literature or Fine Arts Not Art] —Apply for Admission to Teacher Education Program - 214 Sci. Bldg. —See Head of Art Dept. for assignment of upper division advisor 303 Art Bldg.	3 3 2 5 3
	JUNIO	R	
Art 301 Art History Art 312 Printmaking Art Elective Educ 310 Educ Psych (Psy 110) Elective	3 3 3 3 3	Art 302 Art History (Art 301) Art Electives Psy 302 Exceptional Child (Psy 110) Educ 330 Structures of Teaching (Ed 310) Educ 331 Video Lab	3 6 2 2 1 14
	SENIO	R	
Art 490 Senior Studio Art Electives Electives —Make application for graduation 100 Hearnes Hall	2 6 6	*Professional Education Semester —Register for National Teachers Exame 214 Science Building	16 m.
() Prerequisites	14	For Additional Information Contact:	16
Departmental Recommendations*Educ 464 should be taken by those pe wanting certification in K through 12.	ople	Mr. Darral Dishman Office 303 Art Bldg. Phone 263	

ASSOCIATE OF SCIENCE AUTOMOTIVE TECHNOLOGY MAJOR Suggested Order of Study

MAJOR CODE 110

1st Semester	FIRST Y	EAR 2nd Semester	
Course	ours	Course	lours
Auto 100 Automotive Engines	7	Auto 120 Automotive Electrical and	
Math 30 Intermediate Algebra	3	Emission Control	7
Eng 101 Composition	3	Auto 110 Technical Mathematics	3
Phys 100 Physical Science	5	Draf 110 Introductory Drafting	3
Psy 120 Freshman Orientation	1	Psy 100 General Psychology or Soc 11	0 3
is in the second of the second	19	Sp 100 Speech Techniques	
		op 100 speech rechniques	3 19
			19
	SECOND	VEAD	
Auto 200 Automotive Chassis Brakes	SECOND	Auto 250 Automotive Body and Paint	. 7
and Transmissions	7		t 7
Auto 220 Automotive Air Conditioning		Auto 260 Automotive Service Mgt.	/
and Power Accessories		Hist 110 U.S. History 1492-1877 or	
	4	Psc 120	3
Auto 190 Technical Science	4	Gen Ed — [Fine Arts or Lit]	$\frac{3}{20}$
Auto 130 Automotive Business			20
Management		[
OR Acct. 101		For Additional Information Contact:	
Elem Acct I	3	Mr. Roger Adams	
HPER 160 Personal Health	2	Office - 112 Technical Bldg.	
	20	Phone - 277	

BACHELOR OF SCIENCE BIOLOGY Suggested Order of Study

MAJOR CODE 65

assignment of upper Division Advisor 13-15

1st Semester	FRESH	MAN	2nd Semester	
Course	Hours	Course		Hours
Bio 101 Gen Biology	4	Bio 122 Zo	oo Survey (Bio 101)	3
Eng 101 Composition	3		College Algebra & Trig	5
HPER 101 Phys Activities or equiv.	2		omposition (Eng 101)	3
Gen Ed [Speech, Soc Sci, Humanitie	s,	Gen Ed (Sr	peech, Soc Sci, Humanities	i.
Fine Arts]	6	Fine Art		6
Psy 120 Freshman Orientation	1			17
	16			
	SOPHO	MORE		
Bio 112 Botanical Survey (Bio 101)	3	Bio 210 Ge	eneral Physiology	
Bio 305 Genetics (Bio 101)	4		and Bio 122)	4
Chem 101 Gen Chem (Math 140)	5	Bio Group		4-5
Gen Ed [Speech, Soc Sci, Humanities	5,		eech, Soc Sci, Humanities	
P.E.]	2-3	P.E.]		2-3
	14-15		d of Biology Department f	

* Offered Fall Semester Only

[] Departmental Recommendations

() Prerequisite

40

ities, Fine Arts, PE]

Total

DEPARTMENTAL REQUIREMENTS

Must take one course from each Bio Group

A	В	C
Botany	Zoology	Ecology
Bio 316 (Bio 101)	Bio 331 (Bio 101 & 122)	Bio 312 (Phys 100, Bio 101
Bio 322 (Bio 101 & 112)	Bio 442 (Bio 122)	and Math 110)
Bio 414 (Bio 112)	Bio 462 (Bio 122	Bio 314 (Bio 312)
	&/or 331)	Bio 402 (Bio 322)

D ' I D' I-		· · · · · ·	F . I II.		
Required Biolo	ogy	Supporting Courses in	For Additional Inf	ormation Contact:	100
Courses		Sci & Math Required		Faculty Office	Ph.
Bio 101	4	Math 140	Botany:	Dr. Gibson S-308D	226
Bio 112	3	Phys 151	Fish & Wildlife:	Dr. Orr S-308D	226
Bio 122	3	Chem 101	Forestry:		
Bio 211 or 321	5	Chem 102	Ecology:	Dr. Kirkman S-208E	226
Bio 210	4	Chem 300 or 301	Entomology:		100
Bio 305	4	Chem	Ocean & Marine:	Mr. Stebbins S-308E	226
Bio 490	1	Chem	Genetics:	Dr. Ferron S-308B	226
Bio				7-34 A 14 YO TO BE SEED TO BE SEE	1000
Bio					

BACHELOR OF SCIENCE IN EDUCATION BIOLOGY MAJOR

Option B - Single Teaching Field

MAJOR CODE 21

Test Semester Course Bio 101 Gen Biology Eng 101 Composition Psy 110 Human Growth and Devel Psy 120 Freshman Orientation Gen Educ (Speech, Hist, PSc, Humanities) Test Sophomore FRESHMAN Course Bio 122 Zoo Survey (Bio 101) 3 Eng 102 Composition (Eng 101) 3 Math 140 Algebra and Trig 5 Gen Educ (Speech, Hist, PSc, Humanities, Fine Arts) 3 HPER 101 Intro to Physical Activity 2 16 SOPHOMORE
CourseHoursCourseHoursBio 101 Gen Biology4Bio 122 Zoo Survey (Bio 101)3Eng 101 Composition3Eng 102 Composition (Eng 101)3Psy 110 Human Growth and Devel5Math 140 Algebra and Trig5Psy 120 Freshman Orientation1Gen Educ (Speech, Hist, PSc, Humanities, Fine Arts)3Humanities)3HPER 101 Intro to Physical Activity2
Bio 101 Gen Biology Eng 101 Composition Psy 110 Human Growth and Devel Psy 120 Freshman Orientation Gen Educ [Speech, Hist, PSc, Humanities] 4 Bio 122 Zoo Survey (Bio 101) 3 Eng 102 Composition (Eng 101) 5 Math 140 Algebra and Trig 5 Gen Educ [Speech, Hist, PSc, Humanities, Fine Arts] 4 Bio 122 Zoo Survey (Bio 101) 5 Geng 102 Composition (Eng 101) 6 Gen Educ [Speech, Hist, PSc, Humanities, Fine Arts] 7 HPER 101 Intro to Physical Activity 7 Intro 101 Intro to Physical Activity 7 Intro 101 Intro to Physical Activity 1 Intro 101 Int
Eng 101 Composition Psy 110 Human Growth and Devel Psy 120 Freshman Orientation Gen Educ (Speech, Hist, PSc, Humanities) 3 Eng 102 Composition (Eng 101) 3 Math 140 Algebra and Trig 5 Gen Educ (Speech, Hist, PSc, Humanities, Fine Arts) 3 HPER 101 Intro to Physical Activity 2 16
Psy 110 Human Growth and Devel Psy 120 Freshman Orientation Gen Educ [Speech, Hist, PSc, Humanities] Math 140 Algebra and Trig Gen Educ [Speech, Hist, PSc, Humanities, Fine Arts] HPER 101 Intro to Physical Activity HPER 101 Intro to Physical Activity 16
Psy 120 Freshman Orientation Gen Educ [Speech, Hist, PSc, Humanities] 1 Gen Educ [Speech, Hist, PSc, Humanities, Fine Arts] 3 HPER 101 Intro to Physical Activity 2 16
Gen Educ [Speech, Hist, PSc, Humanities] 3 HPER 101 Intro to Physical Activity 2 16
Humanities] 3 HPER 101 Intro to Physical Activity 2 16
16
SORHOMORE
SUPPLIENT
Bio 112 Botanical Survey (Bio 101) 3 Bio 211 Microbiology (Bio 101,
Chem 101 Gen Chemistry I (Math 130) 5 Chem 101) 5
Phys or Geology 5 Bio 305 Genetics (Bio 101) 4
Gen Educ - [Speech, Hist, PSc, Human- Chem 102 Gen Chemistry (Chem 101) 3
ities, Fine Arts, PE] 3 Gen Educ [Speech, Hist, PSc, Humanities, Fine Arts, P.E.] 3
15
—Make application to Teacher Education
214 Math Science Bldg.
217 Main Science Diag.
HINDR
*Chem 301 Organic Chem (Chem 102) 5 **Bio 402 Gen Ecology (Bio 101, 112,
Joseph Freedrich
Gen Educ (Speech, Hist, PSc, Human- ities, Fine Arts, PF) Gen Educ (Speech, Hist, PSc, Human- ities, Fine Arts, PF)

ities, Fine Arts, PE]

3 14

16

Bio 306 Human Physiology and Anatomy (Bio 101 & 122 or Bio 121)
Gen Ed Electiv (No Bio) Biology Electives
Elective

Professional Semester

Register for National Teacher Exam - 214 MS

3

Dr. William L. Ferron Office - S308B

Phone - 226

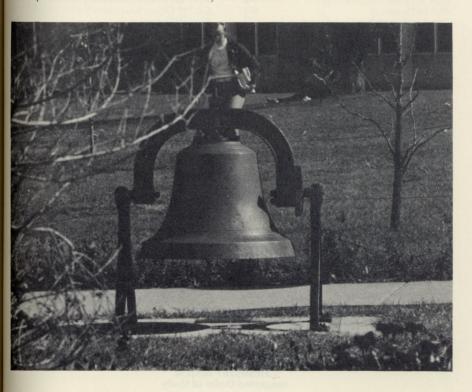
For Additional Information Contact:

-Make application for graduation 100 Hearnes Hall

*Offered Fall Semester Only
**Offered Spring Semester Only

() Prerequisite

[] Dept recommendation - not necessarily in this order.



SENIOR

BACHELOR OF SCIENCE IN EDUCATION

MAJOR CODE 23

BUSINESS EDUCATION
Plan B-Single Teaching Field
Suggested Order of Study
FRESHMAN

1st Semester	FRESHA	AAN 2nd Semester	
Course Eng 101 Composition Hist 110 U.S. History 1492-1877 Gen Ed [Humanities] Psy 110 Psy of Human Development HPER 101 Intro to Physical Act I Psy 120 Freshman Orientation	Hours 3 3 3 5 2 1 17	Course Eng 102 Composition (Eng 101) PSc 120 Govt: National, State, Local Gen Ed [Speech] Gen Ed [Humanities] Math 110 Intro to College Math OR Math 130 College Algebra	Hours 3 3 3 3 3 15
	SOPHON	ORE	
Econ 201 Principles of Economics Acct 101 Elem Accounting I Gen Ed [Science] Gen Ed [Humanities] HPER 160 Personal Health Ed 200 Expl Field Exp	3 3 4-5 3 2 1 16-17	Econ 202 Principles of Economics Acct 102 Elem Accounting II GB 121 Office Machines Gen Ed [Science] Elective [Comp 100 Basic Computing Machines] —See Dean of Business Administratifor assignment of upper division advisor 117 Business Building	3 3 3 4-5 3 ion
	JUNIO	OR .	
Acct 212 Intermediate Accounting C Acct 310 Cost Accounting OR Acct 401 Tax Accounting GB 301 Business Law OA Shorthand or a Business Elective MM 350 Business Organization and Management OR MM 300 Principl of Marketing OA Typewriting	3 3 3 3	GB 302 Business Law [GB 320 Business Communications] OA Typewriting OA Shorthand or a Business Elective Psy 310 Educational Psychology	3 3 3 3 15
	SENIO	P	
Business Electives (No. 300 or above) Ed 330 Structure of Teaching-Sec Ed 331 Video Teaching Lab Psy 302 Exceptional Child —Apply for graduation 100 Hearne	12 2 1 2	Professional Semester —Register for National Teacher Examination-Science 214 Science Build For Additional Information Contact:	
() Prerequisite [] Dept Recommendation		Mrs. L. Miner — Phone: 249 Office: 107 Business Building	

Plan A - Business Education as one of two teaching fields requires the following 30 credit hours: Acct 101, 102, 212 OR 310 OR 401, Econ 201, 202, Office Administration Typing 6 hours, Shorthand 6 hours, Upper Division elective in business 3 hours.

BACHELOR OF ARTS DEGREE CHEMISTRY MAJOR Suggested Order of Study

Suggested Order of Study					
1st Semester	FRESHA	MAN	2nd Semester		
Course	Hours	Course	F	lours	
Chem 101 Gen Chem I (Alg & Trig)	5	Chem 102	2 Gen Chem II (Chem 101)	3	
Math 140 Alg & Trig OR	5	Qualitativ	ve Ana Chem 162 (Chem 101)) 3	
(Math 150 Calculus I)	(5)	Eng 102 C	Composition (Eng 101)	3	
Eng 101 Composition	3	Gen Ed [F	HPER 101 Phys Activities		
Psy 120 Freshman Orientation	1	or equi		2	
Gen Ed [Hist 110 or 120		Electives	(Second area of		
U.S. Hist]	_3_	Concer	ntration)	5	
	17			16	

Se	OPHOMORE	
*Chem 301 Organic Chem I OR Chem 201 Quantitative Analysis Phys 151 Elem College Phys I (Math 140) Gen Ed [HPER 160 Per Health	5 *Chem 302 Organic Chem II OR 5 (5) Chem 300 Intro to Mod Organic Chem (5) Phys 152 Elem College Phys II (Phy 151) 3 (Phy 151	3
Chem 201 Quantitative Analysis or (Chem Elective Upper Division) Foreign Language Gen Ed [Speech] Gen Ed [Literature] (15)	JUNIOR 5 Chem Elective (upper division) 4 (4) Foreign Language 5 5 Gen Ed [Behav & Soc Science] 3 3 Gen Ed [Bio 101 Gen Biology] 4 16 Discuss Career Opportunities or Graduate School with Advisor	
-Apply for graduation - 100 Hearnes	SENIOR 3 Gen Ed [Humanities & Fine Arts] 3 3 Electives 12 16	

*Student may elect either Chem 300 plus 4 hours of upper division Chemistry electives (excluding Chem 301) or Chem 301 and Chem 302.

() Prerequisites
[] Dept Recommendation

For Additional Information Contact:
Dr. Phillip R. Whittle
Office: S222 or S216
Phone: 226/219 240

BACHELOR OF SCIENCE CHEMISTRY MAJOR Suggested Order of Study

FRESHA	AAN 2nd Semester	
Hours	Course	Hours
	Chem 102 Gen Chemistry II	
5	(Chem 101)	3
5	Chem 162 Qual Analysis	
3	(Chem 101)	3
		3 5
3	Eng 102 Composition (Fng 101)	3
1	HPFR 101 Phys Act or equiv	3 2 16
17	The Etc To Trily 3 / Tect of equit	16
ATE BUTTON		10
SOPHON	MORE	
	Chem 302 Organic Chemistry II	
5		5
	Phys 260 Gen Phys II (Phys 250)	5 5
5	**Math 322 Differential equations	
011190	(Math 260)	3
5		,
		3
2		3
17		16
"	apper division advisor	16
	5 5 3 3 1 17 SOPHON 5	Hours Course Chem 102 Gen Chemistry II (Chem 101) Chem 162 Qual Analysis (Chem 101) Math 250 Calculus II (Math 150) Eng 102 Composition (Eng 101) HPER 101 Phys Act or equiv SOPHOMORE Chem 302 Organic Chemistry II (Chem 301) Phys 260 Gen Phys II (Phys 250) **Math 322 Differential equations (Math 260) Gen Ed [PSc 120 Govt: Natl, State, Local] —See Head of Phys Sci Dept for

Chem 401 Phys Chem I OR **Chem 422 Adv Inorganic Chem Chem 201 Quantative Analysis Gen Ed [Speech] Gen Ed [Behav & Soc Sci] Gen Ed [Literature] 18	**Chem 402 Physical Chem OR **Chem 472 Organic Qual Analysis **Chem 421 Instrumental Analysis Gen Ed [Humanities & Fine Arts] Gen Ed [Bio 101 Gen Biology] —Talk with advisor about career opportunity and graduate school
Chem 401 Phys Chem I OR **Chem 422 Adv Inorganic Chem **Phys 301 Modern Physics 4 **Chem 490 Independent Study 1 Gen Ed [Humanities & Fine Arts] 3 Gen Ed Elective 3 —Apply for Graduation - 100 Hearnes Hall 15	**Chem 402 Phys Chem II OR **Chem 472 Organic Qual Analysis **Chem 490 Independent Study **Phys 372 Electronic Circuits Electives (upper division 4 14
**Sug elective (not strict requirements) () Prerequisites [] Dept Recommendation	For Additional Information Contact: Dr. L. R. Albright Dr. V. Baiamonte Office - S222 Office - S216 Phone - 226 Phone - 240

BACHELOR OF SCIENCE IN EDUCATION CHEMISTRY MAJOR Suggested Order of Study

Suggested Order of Study					
1st Semester Course Chem 101 Gen Chem I (Alg & Trig) Math 150 Calculus I Hist 110 or 120 U.S. History Psy 120 Freshman Orientation Eng 101 Composition	FRESHM Hours 5 5 3 1 3 17	Course Chem 102 Go Chem 162 Q Math 250 Ca Eng 102 Com	2nd Semester en Chem II (Chem 101) ual Analysis (Chem 102) lculus II (Math 150) eposition (Eng 101) eys Activities or equiv	Hours 3 3 5 3 2 16	
	SOPHOM	OBE			
*Chem 301 Organic Chemistry I (Chem 102) Phys 250 Gen Phys I (Math 150) +Math 260 Calculus II (Math 250) HPER 160 Personal Health or equiv	5 5 5 5 2 17	**Chem 302 +Phys 260 Ge Psy 110 Psy of PSc 120 Govt —See Head of division advis	Org Chem II (Chem 301 en Phys II (Phys 250) f Human Development : Natl, St & Local of Phys Sci Dept for upp sor teacher education pro	5 5 3 er	
	IIINIO	D			
Chem 401 Phys Chem I OR +Chem 422 Advance Inorganic Chem Chem 201 Quan Analysis Gen Ed [Speech] Gen Ed [Literature] Psy 310 Ed Psy (Psy 110)	JUNIO 4 5 3 3 3 18	Chem Electiv Gen Ed [Hum Gen Ed [Bio 1 Ed 330 Struc o	re (Upper Division) nanities & Fine Arts] 01 Gen Bio] of Teaching Sec Teaching Lab	4 3 4 2 1 14	

	SENI	OR	
Chem 401 Phys Chem I OR + Chem		Ed 462 Student Teaching - Sec	6
422 Advance Inorganic Chem	4	Ed 432 Critical Issues in Ed	2-3
Gen Ed [Humanities & Fine Arts]	3	Ed 402 Philo & Hist of Ed	2-3
Gen Ed Elective	3	Ed 370 Intro to Instruc Media	2
Electives	3	Ed 333 Teaching Sci in Sec School	2
Psy 302 Exceptional Child (Psy 110)	3	Psy 412, Psy 451, or Educ 412	2-3
–Apply for Graduation - 100 Hearnes	_	—Register for Natl Teacher Exam	
Hall	16	MS 214	16-19

- + Sug elective (not strict requirements) /
- * Offered Fall Semester Only
- **Offered Spring Semester Only

For Additional Information Contact:					
Dr. V. Baiamonte	Dr. L. R. Albright				
Office: S216	Office: S222				
Phone: 240	Phone: 226				

ASSOCIATE OF SCIENCE COMPUTING ANALYSIS MAJOR Suggested Order of Study

MAJOR CODE 113

1st Semester Course	FIRST Y	EAR 2nd Semester Course	Hours
Comp 120 Intro to Programming	Hours	Comp 230 Advanced Programming	nouis
(Math 130)	2	Comp 240 Computer Applications	3
Eng 101 Composition	3	Math 250 Calculus & Analytical	3
Math 150 Calculus & Analytical	,	Geometry II	5
Geometry I	5	Phys 250 General Physics	3
Gen Ed [Psy 100 or Soc 110]	5 3	(Math 150)	5
Gen Ed [PSc 120 or Hist 110)	3	HPER 101 Physical Activity	2
Psy 120 Freshman Orientation	1	TIFER TOTFITYSICAL ACTIVITY	10
rsy 120 Freshinan Orientation	18		10
Comp 250 Principles of Dig Comp Math 260 Calculus & Analytical Geometry III Phys 260 Gen Physics II Phys 312 Statics	\$\frac{5}{5} \frac{3}{16}	YEAR Comp 220 Analog Meth & Sim Tech Math 322 Differential Equations Math 350 Intro Numerical Analysis Math 361 Intro to Probability Sp 100 Speech Techniques Gen Ed [Fine Arts or Lit]	3 3 3 3 3 3 18
() Prerequisites [] Dept Recommendations		For Additional Information Contact Mr. John Cragin — Phone - 224 209 Kuhn Hall	

ASSOCIATE OF SCIENCE COMPUTER PROGRAMMING MAJOR Suggested Order of Study

1st Semester	FIRST Y	AR 2nd Semester	
Course	Hours	Course	lours
Comp 100 Intro to Data Processing	3	Comp 120 Intro to Program (Col Alg)	3
Comp 110 Key-Punch Operation	3	PSc 120 Government: Natl,	
Eng 101 Composition	3	State, Local	3
Math 140 Algebra and Trig	5	GB 320 Business Communications	3
Acct 101 Elem Accounting I	3	Acct 102 Elem Accounting II	3
Psy 120 Freshman Orientation	_1_	Sp 100 Speech Techniques	3
	18	HPER 101 Intro to Physical	
		Activities I	2
			17

Comp 230 Advanced Programming Comp 240 Computer Applications Phys 100 Fundamentals of Physical Science Acct 310 Cost Accounting (or Acct 212) Econ 201 Principles of Economics	3 Comp 250 Principles of Dig Machines 3 Comp 300 Systems Analysis and Design Econ 202 Principles of Economics 5 GB 321 Statistics (Math 130 or 131) Psy 100 General Psychology 3 Gen Ed [Lit or Fine Arts]
() Prerequisite [] Dept Recommendation	For Additional Information Contact: Mr. Jim Gray — Phone - 224 209 Kuhn Hall

ASSOCIATE OF SCIENCE ELECTRONIC DATA PROCESSING COORDINATION Suggested Order of Study

1st Semester	FIRST YEA	R 2nd Semester	
Course Comp 100 Intro to Data Processing Acct 101 Elem Accounting I GB 101 Introduction to Business Eng 101 Composition Math 130 College Algebra or 131 Finite Math Psy 120 Freshman Orientation	3 A 3 A 3 F	Course Hor Comp 110 Key-Punch & EAM Operation Acct 102 Elem Accounting II DA 102 Intermediate Typewriting A 120 Intermediate Shorthand Gen Ed [PSc 120 Government: Natl, St, Local or Hist 110] IPER 101 Intro to Physical Activities	
Comp 120 Intro to Program (Math 130 or 131) GB 321 Statistics OA 200 Advanced Typewriting Econ 201 Principles of Economics Psy 100 General Psy or Soc 110 Gen Ed [Literature or Fine Arts]	3 C 3 S	AR Comp 230 Advanced Programming GB 320 Business Communications IB 121 Office Machines p 100 Speech Techniques ien Ed (Science)	3 3 3 4-5 -17
[] Dept Recommendation	F	or Additional Information Contact: Mr. Jim Gray — Phone - 224 09 Kuhn Hall	

DATA PROCESSING CERTIFICATE Required Order of Study

MAJOR CODE 160

One-Year Schedule

Course Comp 120 Intro to Programming Comp 100 Intro to Data Processing Comp 110 Keypunch & EAM Operations Acct 101 Elementary Accounting Math 130 College Algebra or Math 131 Finite Math	Hours 3 3 3 3 3 3 15	Course Comp 230 Advanced Program (Comp 120) GB 101 Intro to Business GB 321 Bus Statistics (Math 130 or 131 Eng 101 Composition Sp 100 Speech Techniques	3 3 3 3 3 3 15
		For Additional Information Contact: Mr. Jim Gray — Phone - 224 Office - 209 Kuhn Hall	

DENTAL ASSISTING CERTIFICATE One-Year Schedule Required Order of Study

MAJOR CODE 145

Students must apply for admission and be accepted into the Dental Assisting Program before they may enroll in DA 100, 120, 130, 140, 160, 150, 180, and 190. Applications for the Dental Assisting Program may be obtained from the Dental Technology Office in the Technology Building.

1st Semester		2nd Semester	
Course	Hours	Course	Hours
DA 100 Intro to Dental Assisting	3	DA 150 Advanced Dental Assisting	3
DA 120 Dental Lab Procedures I	3	DA 160 Dental Lab Procedure II	3
DA 130 Intro to Dental Clinical Prac	4	DA 170 Dental Office Procedures	3
DA 140 Dental Operative Procedure	1 3	DA 180 Dental Operative Procedure	ell 3
DH 160 Dental Radiology	2	DA 190 Practicum in Dental	
Eng 101 Composition	3	Clinical Prac	4
and to the control of	18	Psy 100 Gen Psy	3
	Timb		19
		Total Accumulated Hours	37
		For Additional Information Contact Mrs. Mary Ann Gremling — Phone 102 Technical Bldg.	

ASSOCIATE OF SCIENCE DENTAL HYGIENE Suggested Order of Study

MAJOR CODE 124

Students must apply for admission and be accepted into the Dental Hygiene Program before they may enroll in DH 150, 320, 100, 220, 310, 190, 160, 200, 210, 290, 330, 390. Applications for the DENTAL HYGIENE PROGRAM may be obtained from the Dental Hygiene office in the Technical Building.

1st Semester Course DH 150 Embryology, Histology & Dental Anatomy Eng 101 Composition Chem 100 Intro Chemistry Bio 221 Human Anatomy & Phys	FIRST YE Hours 3 3 5 5 5 76	CAR 2nd Semester Course DH 100 Fund of Dental Hygiene DH 220 D. Materials & Assist. DH 310 Nutrition DH 160 Dental Radiology Psy 110 Psy of Human Development	5 3 2 2 5 17
DH 190 Clinical Dental Hygiene Sp 100 Speech Techniques Gen Ed [Fine Arts or Lit]	SUMM 3 3 3 3	ER	
DH 200 Fund of Dentistry DH 210 Perio-Pathology DH 290 Clinical Dental Hygiene II Bio 231 Fund of Medical Macro- biology DH 320 Pharmacology	\$ECOND	PEAR DH 330 Ethics & Community Dentistry DH 390 Clinical Dental Hygiene III Soc 110 Intro to Sociology Gen Ed (Hist 110 or PSc 120) HPER 101 Intro to Physical Activity	3 5 3 3 2 16
[] Dept Recommendation		For Additional Information Contact: Mrs. Mary Ann Gremling — Phone - 102 Technical Bldg.	

ASSOCIATE OF SCIENCE DRAFTING AND DESIGN MAJOR Suggested Order of Study

MAJOR CODE 116

1st Semester	FIRST YEAR	2nd Semester	
Course Draf 110 Introductory Drafting Mach 100 Intro Machine Tool Processes Psy 100 General Psychology Math 30 Inter Algebra OR Math 130 College Algebra HPER 101 Intro to Physical Activity Psy 120 Freshman Orientation	5 (D 3 Gen Th 11	The state of the s	3 3 3 3 3 3 15
Soc 121 The Family Math 112 Trigonometry Draf 200 Machine Design Draf 240 Mapping and Surveying Comp 100 Intro to Data Processing	2 Draf 3 Draf 3 Gen	110 Intro to Geology 210 Production Illustration 220 Architectural Drafting Ed [PSc 120 OR Hist 110] Ed Elective	5 3 3 3 17
() Prerequisite [] Dept Recommendation	Mr. J. 102 T	dditional Information Contact: erry Coburn echnical Bldg. e - 279	

BACHELOR OF SCIENCE BUSINESS ADMINISTRATION Economics and Finance Major Suggested Order of Study

Suggested Order of Study				
1st Semester Course GB 101 Intro to Business Eng 101 Composition HPER 101 Intro to Physical Activities PSc 120 U.S. State & Local Governme Com 100 Intro to Data Processing Psy 120 Freshman Orientation	FRESHM Hours 3 3 2 ent 3 3 1 15	Course Eng 102 Comp Hist 110 or 120 Math 131 Fini	2nd Semester position (Eng 101) 0 U.S. History te Math anities and Fine Arts	3 3 3 6 15
Acct 101 Elem Accounting I Econ 201 Principles of Economics I Gen Ed [Bio 100 or equiv] Gen Ed [Humanities and Fine Arts] HPER 160 Personal Health or two hours activities	3 3 4-5 3 4-5 3	Acct 102 Elem Econ 202 Princ Gen Ed [Phys Gen Ed [Speed Geo 222 Econ Econ electiv —See Dean of	ch 302] omic Geography or /e f Business Administrat t of upper division ad	3 3 5 3 ion visor
Econ 300 Money and Banking GB 301 Business Law I GB 321 Bus Statistics (Math 131) MM 300 Principles of Marketing MM 350 Bus Organization & Mgt	JUNIO 3 3 3 3 3 3	Econ 350 Corp Econ 302 Econ GB 302 Busine GB 320 Busine	oorate Finance Growth & Dev sss Law II sss Communications onnel Management	3 3 3 3 15

	SEN
con 401 Microeconomic Analysis	3
Econ 411 Investments	3
Hist 331 Economic History OR	
Econ Elective	3
Electives	6
	15
A 1 (1.1-11

-Apply for graduation - 100 Hearnes Hall

1st Semester

() Prerequisites

Dept Recommendations

NIOR Econ 402 Macroeconomic Analysis 3 Econ 498 Seminar or elective 3 Electives 10-11 16-17

For Additional Information Contact:

2nd Semester

Mr. Paul Johnson Office: 201 Business Building Phone: 238

ELEMENTARY EDUCATION BACHELOR OF SCIENCE IN EDUCATION OR UNDECIDED No. 19 **Suggested Order of Study**

FRESHMAN

MAIOR CODE IS IN SUPPORTING AREA

ist beliester		Silvivity Zild Selliester	
Course Psy 110 Human Development Eng 101 Composition Hist 110 or 120 U.S. History Math 111 Math for Elem Teacher I HPER 101 Intro to P.E. Activity Psy 120 Freshman Orientation	Hours 5 3 3 2 1 17	Course Haw Eng 102 Comp (Eng 101) Hist 110 or 120 U.S. History Gen Ed (Fine Arts) Math 120 Math for Elem Teacher II PSc 120 Govt: U.S. St & Local	3 3 3 3 3 3 15
	SOPE	HOMORE	
Eng 180 or 181 World Literature Gen Ed (Phys 100 or equiv) Music 332 Music in Elem Speech 100 or 211 Elective (Supporting Area) () Prerequisites [] Dept Recommendation	3 5 3 3 3 77	Psy 310 Ed Psy (Psy 110) Eng 325 Children's Literature Art 220 Art Education Gen Ed [Bio 101 or equiv] Elective [Supporting Area] —Apply for admission to Teacher Education Program MS 214 —See Dean of Education for upper division advisor	3 3 4 3 17
ADDITIONAL GENERAL EDUCATION MAJO Bio 310 Field Bio or Bio Elective Eng 315 or Eng 301 Modern Gramm Geog 211 Reg & Nations* *More advanced course in same de acceptable	RS 5-6 ar 3	DEPARTMENTAL REQUIREMENTS Ed 200 Exp Field Exper Eng 325 Child Lit Art 220 Art Ed Mus 332 Mus Elem Sch Psy 302 Except Child HPER 311 P.E. Elem Sch Ed 311 Sci Elem Sch	1 3 3 3 2 2 2
PROFESSIONAL EDUCATION Psy 310 Ed Psy Ed 320 Struc of Teach Ed 321 Video Teach Lab Ed 402 Hist & Phil of Ed Ed 432 Crit Issues in Ed Ed 322 Tch Soc Sci Elem Ed 370 Inst Media Psy 412, Psy 451, or Ed 412	3 2 1 2-3 2-3 2-3 2-3 2-3	Ed 312 Prob in Arith Ed 340 Lang Arts & Reading Ed 492 Rem & Diag Reading Ed 420 Counseling, Ed 351 Ment Rtd, Sp 492 Correction, Ed 352 or Ed 360 For Additional Information Contact: Dr. O. L. Schuster Office - 206 Sci. Rldg	2 2 2 2 5 2 2 2-3

() Prerequisite

[] Dept Recommendation

Psy 412, Psy 451, or Ed 412 Ed 442 St Teaching

For Additional Information Contact: Dr. O. L. Schuster Office - 206 Sci. Bldg. Phone - 225

5-6

AREA OF CONCENTRATION REQUIREMENTS FOR SPECIAL EDUCATION AND WHEN CERTIFICATION FOR GRADES 7, 8, 9 IS DESIRED

ART	MAJOR CODE 1	0 SCI	ENCE 7-8-9	MAJOR	CODE 12
1. Design		5 1. (Chemistry		4-5
2. Painting and Drawing		6 2. P	Physics		4-5
3. Elective Art Credit			Biology		8-10
4. Art Education (for Ele	m Sch)	2 4. E	arth Science (Geol	oav)	4-5
	Total 2	1	artif science (Geo)	Total	21
	.0141			Total	21
ENGLISH	MAJOR CODE 1	SOC	CIAL STUDIES	MAJOR	CODE 16
1. Composition, Rhetor	ic, Grammar,		merican History		6
Linguistics, etc. (To in	clude a		uropean History		6
course in Advanced C	Comp)		or World History)		
2. American Literature			J.S. and/or State Go	overnment	3
3. English Lit and/or Wo			conomics	overimient.	3
4. Problems of Teaching			Geography		3
in Sec School			lectives (Soc Studie	10)	,
in see sensor	Total 2		iectives (30c studie		21
	Total 2.			Total	21
SPEECH AND DRAMATI	CS Major Code 1	B HEA	LTHAND	MAJOR	ODF 17
1. Composition, Rhetori	ic and Gram-		SICAL EDUCATIO		
mar (To include a cou			lealth Ed, First Aid,		
Composition)			hysiology, Kinesiol		8
2. Speech and Dramatics	s 1		und of P.E.	08), ctc.	4
3. Electives English and S			urv of Sports or Co	aching Cou	
8	Total 2	1 4 P	.E. Elem School	denning cou	11303 3 7
			lective Courses in F	hythms	-
TEACHER OF SPECIAL EL	DUCATION		nd/or Games	Kilytillis	3-4
TESTOTIES OF STEEDING	o continuit	a	nd/ of Games	T-4-I	21
(Elemor Sec)†	MAIOR CODE 18	П		Total	21
	MAJOR CODE 18		THEMATICS		
*1. Except Child (Psy 302	2)	MA	THEMATICS Math Courses abo	MAJORC	ODE 14
*1. Except Child (Psy 302 *2. Methods of Teach EN	MR (Ed 351)	MA Any	THEMATICS Math Courses abo	MAJOR C	CODE 14
*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach Em Di	MR (Ed 351) ist (Ed 360)	MA Any		MAJORC	ODE 14
*1. Except Child (Psy 302 *2. Methods of Teach EN *3. Meth of Teach Em Di *4. Meth of Tech L.D. (E	MR (Ed 351) ist (Ed 360) d 352)	MA Any	Math Courses abo	MAJOR Cove Int Algeb Total	CODE 14 ora 21
*1. Except Child (Psy 302 *2. Methods of Teach EN *3. Meth of Teach Em Di *4. Meth of Tech L.D. (Ed *5. Remed & Diag Readi	2) AR (Ed 351) ist (Ed 360) d 352) ng (Ed 492)	MA Any	Math Courses abo	MAJOR C	CODE 14 ora 21
*1. Except Child (Psy 302 *2. Methods of Teach EN *3. Meth of Teach Em Di *4. Meth of Tech L.D. (Extended & Diag Readi *6. Spch Corr Prob (Sp 4	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92)	Any **M (Inst	Math Courses abo USIC rumental & Vocal)	MAJOR C	21 CODE 15
*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach Em Di *4. Meth of Tech L.D. (Ed *5. Remed & Diag Readi *6. Spch Corr Prob (Sp 4 *7. Student Teaching Spo	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92) ec Educ	MA Any Any ** M (Inst 1. T	Math Courses about the Courses about the Course and Cou	MAJOR C	21 CODE 15
*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach Em Di *4. Meth of Tech L.D. (Evant Evant Ev	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92) ec Educ 6 (22)	MA Any **M (Inst 1. T 2. C	Math Courses about the Courses about the Course and Cou	MAJOR C	21 CODE 15
*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach Em Di *4. Meth of Tech L.D. (E *5. Remed & Diag Readi *6. Spch Corr Prob (Sp 4 *7. Student Teaching Spa (Ed 444) Select 9 hrs from folk	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92) ec Educ 6 (22) owing:	**MA (Inst 1. T 2. C 3. P	Math Courses about the Courses about the Course the Cou	MAJOR C	21 CODE 15
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*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach EM Di *4. Meth of Tech L.D. (E *5. Remed & Diag Readi *6. Spch Corr Prob (Sp 4 *7. Student Teaching Sp (Ed 444) Select 9 hrs from folk Counseling (Ed 420) of	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92) ec Educ 6 (22) owing: or Arts &	**MA' Any **M(Inst 1. T 2. C 3. P 4. V 5. Ir	Math Courses about the Courses about the Courses and Courses and Courses about the Course abou	MAJOR Cove Int Algebrate Total MAJOR Covering and discounting	21 CODE 15 Code 15 4 4 4 4 4 4 4 4
*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach EM Di *4. Meth of Tech L.D. (E *5. Remed & Diag Readi *6. Spch Corr Prob (Sp 4 *7. Student Teaching Sp (Ed 444) Select 9 hrs from folk Counseling (Ed 420) of Crafts Pers Adj, Abnormal F	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92) ec Educ 6 (22) owing: or Arts &	**MA' Any **M(Inst 1. T 2. C 3. P 4. V 5. Ir 6. El	Math Courses about the Courses about the Course are sight transported by the Course are struments (not Pialective Music	MAJOR Cove Int Algebrate Total MAJOR Covering and discounting	21 21 CODE 15 cction 6 2 4 4 4 6 6
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*1. Except Child (Psy 302 *2. Methods of Teach EM *3. Meth of Teach EM Di *4. Meth of Tech L.D. (E *5. Remed & Diag Readi *6. Spch Corr Prob (Sp 4 *7. Student Teaching Spc (Ed 444) Select 9 hrs from follo Counseling (Ed 420) of Crafts Pers Adj, Abnormal F in Spec Ed Sensation Sociology, Individual	MR (Ed 351) ist (Ed 360) d 352) ng (Ed 492) 92) ec Educ 6 (22) owing: or Arts & Psy, Practicum (Psy 411) I Testing (Psy 471)	**MA' Any **MA' (Inst 1. T 2. C 3. P 4. V 5. Ir 6. El 7. N	Math Courses abo USIC Trumental & Vocal) heory ear, sight train	MAJOR Cove Int Algeb Total MAJOR Coining and did	21 21 CODE 15 2 4 4 4 4 4 6 6 2 28
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PRE-ENGINEERING

MAJOR CODE 133

The first two years of pre-engineering courses are outlined in "A Model Program for Engineering Transfers." This publication is written specifically for those students transfering to the University of Missouri - Rolla after two years. However, most engineering programs are standard for the first two years. If a student wishes to transfer to a school other than Rolla, it is suggested that he review the catalog of that school for any differences in their program and the one suggested. College catalogs are available in the Reserve area of the MSSC Library.

Any advisors that desire a copy of the booklet should contact the Math department.

	FIRST SEMESTER	Aerospace	Ceramic	Chemical	Civil	Electrical	Engr Mgmt	Engr Mechanics	Geological Engr	Mechanical	Metallurgical	Mining Engr	Nuclear Engr	Petroleum	
Г	Eng 101 Composition	X	X	X	X	X	X	X	X	X	X	X	X	X	
	Math 150 Calc I	X	X	X	X	X	X	X	X	X	X	X	X	X	
	Hist 110 U.S. History	X	X	X	X	X	X	X	X	X	X	X	X	X	
EIRST YEAR	Chem 101 Gen Chem I (Math 140)	X	X	X	X	X	X	X	X	X	X	X	X	X	
XE	SECOND SEMESTER						201				239				
ST	Math 250 Calc II (Math 150)	X	X	X	X	X	X	X	X	X	X	X	X	X	
IR	Phys 250 Gen Phys I (Math 140)	X	X	X	X	X	X	X	X	X	X	X	X	X	
٦	Econ 201 Principles of Econ-Macro	X	X	X	X	X	X	X	X	X		X		X	
	Chem 102 Gen Chem II (Chem 101)		X	X	1000				X		X	X	X	X	
_	Draft 110 Intro Draft	X			X	X	X	X		X	X		X		

() Prerequisites

Second year courses selected in conjunction with academic advisor.

For Additional Information Contact Mr. R. Boehning — Phone - 226 Office - \$210

BACHELOR OF ARTS ENGLISH Suggested Order of Study MAJOR CODE 41

1st Semester	FRESH	IMAN 2nd Semester	
Course	Hours	Course	Hours
+Eng 101 Composition	3	Eng 102 Composition (Eng 101)	3
Gen Ed [Hist 110 or 120]	3	Gen Ed [Pol Sci 120]	3
foreign Language	5	Foreign Language	5
Gen Ed [Math 110 or equiv]	3	English Elective	3
Gen Ed [HPER 101 or equiv]	2	Elective	3
Psy 120 Freshman Orientation	1		17
	17		

+Students who qualify may take Eng 111 instead of Eng 101 and 102. [ACT Eng Score 24 or higher.]

Eng 271 English Literature Eng Elective	SOPHO 3 3	MORE Eng 272 English Literature **Eng 216 or Eng 315
Gen Ed (Speech) Gen Ed (Bio Sci) Gen Ed (HPER 160 or equiv)	3 4 2 15	Gen Ed [Phys Sci] Gen Ed [Beh Sci] Elective —See Head of English Dept. for assign-
		ment of upper division advisor - 300 Hearnes Hall
	JUNI	OR
Eng 311		Eng 312
Eng 301 or *400	3 3 6 15	Eng Elective
English Elective	3	Fine Arts Elective
Electives	6	Electives
	15	—Discuss career opportunities or graduate school with advisor
	SENI	OR
English Electives	6	English Electives
Electives	9	Electives
—Apply for graduation-100 Hearnes	Hall 15	9.721.42-744
English 101, 102, 271, 272 should be co	ompleted	before the Junior year.
* Offered Fall Semesters only **Offered Spring Semesters only () Prerequisites [] Dept Recommendations		For Additional Information Contact: Dr. Joe Lambert — Phone: 234 Office: 304 Hearnes Hall

BACHELOR OF SCIENCE IN EDUCATION ENGLISH EDUCATION Plan B - Single Teaching Field Suggested Order of Study

MAJOR CODE 24

17

3 3 6

6 9 15

 Course
 FRESHMAN
 2nd Semester

 Fig. 101 Composition
 3
 Eng 102 Composition (Eng 101)
 3

 Psy 110 Psy of Human Development
 5
 Eng 271 English Lit (Eng 101)
 3

 Gen Ed [Hist 110 or 120 U.S. Hist]
 3
 Eng Elective [Eng 180]
 3

 Gen Ed [Math 110 or equiv]
 3
 Gen Ed [Science]
 4-5

 HPER 101 Physical Activity
 2
 Elective
 3

 Psy 120 Freshman Orientation
 1
 1
 1

Gen Ed (Math 110 or equiv) HPER 101 Physical Activity Psy 120 Freshman Orientation	3 2 1 17	Eng Elective [Eng 180] Gen Ed [Science] Elective	4-5 3 16-17
	SOPHO	OMORE	
Eng 272 English Literature	3	Eng 312 American Literature	3
Eng 311 American Literature	3	Eng 301 Modern Grammar OR	
HPER 160 Personal Health	2	Eng 400 Hist of Eng Lang	3
Gen Ed [Science]	4-5	Psy 310 Ed Psychology	3
Elective [Foreign Language]		Gen Ed [Fine Arts]	3
OR Fine Arts	3-5	Educ 200 Exploratory Field Experien	ices 1
	15-18	Elective [Foreign Language]	3-5
		—See Head of English Dept. for assi	ign-
		ment of upper division advisor	16-18

	JUN	IOR	
Eng 315 Exposition	3	Eng 319 Comp for Teachers	3
Eng [Area A Elective]	3	Eng 450 Shakespeare OR	1777
Eng Elective [Eng 330 Literature		Eng 451 Shakspr	3
of Adolescents]	3	Eng [Area B Elective]	3
Gen Ed [Speech]	3	Ed 330 Structure of Teaching	2
Elective	3	Ed 331 Video Teaching Lab	1
Ed 422 Teaching Read in Sec Sch	2	Gen Ed [Polsc 120 - Government]	3
	17		15

	SENI	OR	
Eng [Area C Elective] Eng Elective	3	Professional Semester including methods course for first major	16
Psy 302 Exceptional Child Electives [Methods course for	2	—Register for National Teachers Exam 214 Math - Science Building	10
second major! —Apply for graduation 100 Hearnes	8 16	214 Matti - Science Building	16

Eng 101 is prerequisite for all literature except Eng 180-181 World Masterpieces. One lower division literature course prerequisite to <u>all</u> upper division literature except Eng 311-312.

Area A Eng 410 Medieval Eng Lit Eng 415 Lit of Eng Renaissance Eng 420 17th Cent Eng Lit	Area B Eng 425 18th Cent Eng Lit Eng 430 Romantic Period Eng 435 Victorian Period	Area C 345 American Novel 360 20th Century Drama 370 20th Century Poetry 380 English Novel
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For Additional Information Contact: Mrs. Enid Blevins — Phone 280 Office - 108 Hearnes Hall

2 16 .

ASSOCIATE OF SCIENCE **ENVIRONMENTAL HEALTH**

MAJOR CODE 123

Suggested Order of Study

FIRST YEAR Prescribed 36 week course at Water and Waste Water School 30 Hrs. SECOND VEAD

ist semester	SECOND	TEAK 2nd Semester	
Course	Hours	Course	Hours
Chem 101 General Chemistry I	5	Chem 102 General Chemistry II	3
Bio 101 General Biology	4	Bio 312 Environmental Biology	3
Math 140 Algebra and Trig	5	Bio 314 Environmental Biology Lab	2
Psy 120 Orientation	1	Eng 101 Composition	3
HPER 101 Physical Education	2	Gen Ed [Literature or Fine Arts]	3
	17	Gen Ed [Hist 110 or PSc 120]	3
A Section of Section 19 Section 1		301120 (1110 0110 0110 0110 0110 0110 011	17
			.,
The second of the second	SUMM	FR	
Gen Ed [Psy 100 or Soc 110]	3		
Sp 100 Fundamentals of Speech	3	For Additional Information Contact	7
	6	Dr. Gerald Elick — Phone - 226	
[] Dept Recommendations		Office - 308A Sci. Bldg.	
		Since Sourt Sell Blug.	_

BACHELOR OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY MAJOR Suggested Order of Study

1st Semester	FRESH	MAN	2nd Semester	
Course	Hours	Course		Hours
Bio 101 General Biology	4	Bio 112 F	Botanical Survey (Bio 101)	3
Eng 101 Composition	3	Bio 122 7	Zoological Survey (Bio 101)	3
Math 140 Algebra & Trig	5		Composition	3
Psy 100 General Psychology	3		or 120 U.S. History	3
Psy 120 Freshman Orientation	1		0 Personal Health	2
HPER 101 Physical Education	2 18		[Fine Arts]	3
MA THOM	18			17

Chem 101 General Chem (Math 140) Econ 201 Principles of Economics Speech 100 Speech Techniques or eq Acct 101 Elem Accounting Gen Ed (Literature)	3 Cl Bi 3 M 3 7	RE hem 102 General Cher hem 162 Qual. Analy. o 211 Microbio (Bio 10 IM 350 Business Orga and Management en Ed [Humanities or I See Head of Bio Dept ent of upper division	(Chem 102) 11, Chem 101) iization Fine Arts) for assign-
Chem 201 Quantitative Analy. (Chem 102) Bio 431 Animal Physiology (Chem 300 or Chem 301) OR Science Elective approved by advisor Bio 312 Environmental Bio (Bio 101) Bio 314 Environ Bio Lab (with 312)	5 0 Bi 5 PS	hem 300 Organic and Chemistry (Chem 102 io 442 Invertebrate Zo Sc 120 Government: N State, Local 1M 352 Personnel Mar (MM 350)	ology (Bio 122) ational,
The fourth year consists of a Wastewater School. (This work may l () Prerequisite [] Dept Recommendation	be taken prior	36 weeks of study to entering MSSC). or Additional Informa or. G. Elick — Office: S thone: 1-417 624-8100 dome: 1-417 623-1318	tion Contact:
GEN	SOCIATE OF SIERAL BUSINES	SCIENCE SS MAJOR	MAĴOR CODE III
1st Semester Course Acct 101 Elem Accounting I GB 101 Introduction of Business GB 121 Business Machines Eng 101 Composition Math 30 Intermediate Algebra OR Math 110 Psy 120 Freshman Orientation	FIRST YEA Hours 3 3 3 3 3 3 3		ypewriting Sc 1201 pues ical Activities
GB 320 Business Communications GB 301 Business Law MM 300 Principles of Marketing Econ 201 Principles of Economics Gen Ed [Psy 100 Gen Psychology OR Soc 110]	3 3 6	EAR MM 350 Business Orga Management GB 302 Business Law Econ 202 Principles of Gen Ed (Science) Electives	

—Apply for Graduation 100 Hearnes Hall

() Prerequisite
[] Dept Recommendation

For Additional Information Contact:
Mr. R. Miller
Office - 202 Bus. Bldg.
Phone - 238

For Additional Information Contact:
Mrs. E. Compton
Office - 112 Bus. Bldg.
Phone - 249

15

BACHELOR OF SCIENCE IN BUSINESS General Business Major Suggested Order of Study

1st Semester	FRESHM	AN	2nd Semester	
Course	3 3 3 2 3 1 15		osition (Eng 101) ci [Hist 110 or 120] e Math ech]	3 3 3 3 3 15
S	БОРНОМ	ORE		
*Acct 101 Elem Accounting I. Econ 201 Principles of Economics Gen Ed - Science (Bio 101 Gen Bio) Gen Ed - [Humanities] HPER 160 Personal Health	3 3 4 3 2 15	*GB 320 Bus C *Acct 102 Eler (Acct 101) Gen Ed-Scien Electives —See Dean o	rciples of Economics communications in Accounting II ce [Phys 100] f Business Administration ous	3 3 3 5 3 5 3 on for
	JUNIO	R		
*GB 301 Business Law I *GB 321 Statistics *MM 300 Principles of Marketing *Econ 300 Money and Banking *MM 350 Business Organization & Mgt	3 3 3 3 15	*GB 302 Busin *Econ 350 Co *MM 352 Pers Gen Ed-[Hum Electives	rporate Finance / sonnel Management /	3 3 3 3 5 17
	SENIO	R		
**Elective in Economics (No. 300 or above) **Elective in Business (No. 300 or above) Electives (No. 300 or above)	3 3 9 15	(No. 300 or	Marketing and Mgt above) Gen Bus (No. 300	3 9 15
 General Requirements in Business ** Specific Program Requirements in Business () Prerequisites [] Dept Recommendations 		Mr. L. Goode	al Information Contact: siness Building	

BACHELOR OF ARTS HISTORY Suggested Order of Study

MAJOR CODE 42

1st Semester	FRESH	MAN	2nd Semester	
Course	Hours	Course		Hours
Hist 110 U.S. Hist 1492-1877	3	Hist 120 U	.S. Hist 1877 - Present	3
Eng 101 Composition	3	Eng 102 Co	omposition (Eng 101)	3
Gen Ed [Math]	3		S. State, Local Govt	3
Gen Ed [Humanities or Fine Arts]	3	Gen Ed [So	ciencel	4-5
HPER 101 P.E. Activity	2	HPER 160	Personal Health or equiv	2
Psy 120 Freshman Orientation	1			15-16
	15			
() Prerequisite				
[] Dept Recommendations				

CHECKLIST

	СН
GENERAL EDUCATION (46)	Hours
Eng 101 English Composition	3
Eng 102 English Composition	3
(Eng 111 satisfies Eng 101 & 102)	175 mag
Speech	3
Check One:	TOTAL STATE
Sp 100 Speech Techniques	PROBLE
Sp 101 Argumentation & Debate	
Sp 210 Discussion Techniques	energel;
Sp 302 Business & Professional	N. M.Z.
Mathematics 110 or above	3
(write in:)
HPER 101 P.E. Activity	2
HPER 160 Personal Health or equiv	2 2 3 6
Literature - any level qualified	3
Fine Arts	6
Check Two:	THE BOY
Art	ne annual
Theatre	THE PARTY
Foreign Language (beyond degre	ee
requirement)	.040191
Literature	
Music	
Philosophy	
(write in:)
Biological Science	4
Physical Science	5 3 3
Hist 110 or 120 (Both Required)	3
PSc 120 U.S. State & Local Govt	3
Behavioral and Social Sciences	3
Check One:	POSITION D
Psychology	
Sociology	
Economics	
History	106 101
Political Science	
Geography	
(write in:)
Elective outside major area	3
(write in:)

LUCTORY (27)		
HISTORY (27)		urs
The following must not duplicate th	e	
General Ed requirements:		
History 110 or 120		3
Hist 200 Western Civilization		3
Hist 205 or 210 Modern Europe		3
Upper Division U.S. History		3
(write in:)
Upper Division U.S. History		3
(write in:)
Upper Division European History		3
(write in:)
Upper Division European History		3
(write in:)
Upper Division History		3
(write in:)
Upper Division History		3
(write in:)
		100

Foreign Language							10
(write in:)

MINOR AREA OF STUDY

For Additional Information Contact: Dr. R. Markman Office: 112 Hearnes Phone: 280

ASSOCIATE OF ARTS PRE-JOURNALISM Suggested Order of Study

MAJOR CODE 133

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
Eng 101 Composition	3	Eng 102 Composition	3
*Foreign Language	5	*Foreign Language	5
[Math 110 or equiv]	3	Polsc 120 Govt: U.S., State, Local	3
Hist 110 or 120	3	[Speech]	3
Elective	3	Elective	3 17
[Psy 120 Freshman Orientation]	1_		17
	17		
	SOPHO	MORE	
*Literature [Eng 271]	3	*Literature [Eng 272]	3
*Foreign Language	3	*Econ 201 or 202	3
[Bio 101 or Phys 100]	4-5	Elective	7
[HPER 101 or 160]	2	**Electives	3
Elective	3		16
SUSHASES	15-16		

I Meets MSSC General Education requirements.

Electives should be chosen from sociology, psychology, political science, philosophy, mathematics, accounting, English and journalism. (See note below)

Completion of the above requirements does not necessarily assure acceptance into a School of Journalism. The student is responsible for contacting his or her choice of Journalism School and requesting information pertaining to the proper procedure for applying for application into that School.

**For students interested in advertising MM 300-Principles of Marketing is strongly recommended.

For Additional Information Contact: Mr. Richard Massa — Phone - 228 Office 117 Hearnes Hall

ASSOCIATE OF SCIENCE LAW ENFORCEMENT MAJOR Suggested Order of Study

Suggested Order of Study						
1st Semester	FIRST Y	EAR 2nd Semester				
Course	Hours	Course	Hours			
LE 100 Intro to Law Enforcement	-3	LE 150 Interview and Report Writing	2			
LE 110 Police Organization and		Pol Sc 120 Govt: U.S., State, Local	3			
Administration	2	Psy 100 General Psychology	3			
Eng 101 Composition	3	Phys 100 Fundamental of Physical				
Math 110 Intro to Coll Math	3	Ścience	5			
Soc 110 Intro to Sociology	3	Soc 210 Social Problems	3			
HPER 160 Personal Health	2		16			
Psy 120 Freshman Orientation	1					
	17					
			SUMMER			
15 100 C D - \ \ \ .			SUMMER			
LE 190 Supervised Police Work	6					
TO THE SECOND CONTRACT TO THE SECOND	SECOND	YEAR				
LE 200 Criminal Investigations	3	LE 250 Criminal Law	3			
LE 210 Criminal Procedures	3	LE 290 Police Supervision & Mgmt	3			
Sp 100 Speech Techniques	3	Elective (Advisor Approved)	3			
Soc 351 Criminology	3	Soc 412 Juvenile Delinquency	3			
Psy 221 Psychology of Personal		HPER 220 First Aid	2			
Adjustment	3	Gen Ed [Lit or Fine Arts]	3 3 2 3			
	3 15					
() Prerequisite		For Additional Information Contact:	The same of the sa			
[] Dept Recommendation		Mr. Don Seneker — Phone - 219	1000			
		103 Police Academy				

ASSOCIATE OF SCIENCE MACHINE TECHNOLOGY MAJOR Suggested Order of Study

MAJOR CODE 115

1st Semester	FIRST YEA	R 2nd Semester	
Course	Hours (Course	Hours
Mach 100 Intro to Machine Tool Processes Draf 110 Introductory Drafting Mach 160 Process Instrumentation Psy 100 General Psychology Psy 120 Freshman Orientation Gen Ed [Literature or Fine Arts]	5 3 N 2 D 3 H	Mach 120 Advanced Machine Tool Processes Mach 260 Fundamentals of Metallur Draf 130 Machine Drafting HPER 101 Intro to Physical Activity Math 130 College Algebra	5 2 3 2 3 15
Mach 210 Fundamentals of Cutting Tools Eng 101 Composition Phys 100 Fund of Physical Science Gen Ed [Hist 110 or PSc 120]	5 S	AR Mach 240 Fundamentals of Toolmak p 100 Speech Techniques Gen Ed (Literature or Fine Arts) Elective (Technical)	ing 5 3 3 3 14
[] Dept Recommendations	IN.	or Additional Information Contact: Ar. Kenneth Dwyer — Phone - 277 15 Technology Bldg.	

BACHELOR OF SCIENCE IN BUSINESS MARKETING AND MANAGEMENT MAJOR Suggested Order of Study

1st Semester Course GB 101 Introduction to Business Eng 101 Composition Elective [Psy 100 General Psycholo HPER 101 Intro to Physical Activit PSc 120 Govt: National, State, Loc Psy 120 Freshman Orientation Electives	y 2	AN 2nd Semester Course Eng 102 Composition (Eng 101) Hist 110 U.S. History 1492-1877 Math 131 Finite Math Gen Ed [Speech] Electives	Hours 3 3 3 3 15
Acct 101 Elem Accounting I Econ 201 Principles of Economics Gen Ed [Bio 101 General Biology or equiv] Gen Ed [Humanities] HPER 160 Personal Health	3 4 3 2 16	ORE Acct 102 Elem Acct II (Acct 101) Econ 202 Principles of Economics GB 320 Business Communications Phys 100 Fund of Physical Science or equiv Electives —See Dean of Business Administration for assignment of upper division advisor - 117 Bus	3 3 3 5 3 on
MM 300 Principles of Marketing MM 350 Business Organization ar GB 301 Business Law I Econ 300 Money and Banking Gen Ed [Fine Arts]	nd Mgt 3 3 3	MM 312 Retailing MM 352 Personnel Mgt GB 302 Business Law II GB 321 Business Statistics (Math 131) Econ 350 Corporate Finance	3 3 3 3 3

	SENIO	R	
MM 401 Promotional Strategy	3	MM 452 Business Policy	3
MM 412 Marketing Management	3	Electives In Business or Econ	6
MM 431 Production Management	3	Electives	6
Gen Ed - [Humanities]	3		6 15
Electives	3		
	15		

-Apply for graduation - 100 Hearnes Hall

() Prerequisites

[] Dept Recommendation

For Additional Information Contact: Mr. R. Miller Office 202 Business Building Phone 238

BACHELOR OF SCIENCE MATHEMATICS Suggested Order of Study

MAJOR CODE 67

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
Math 150 Calculus w/Analytic		Math 250 Calc w/Anal Geom	
Geometry	5	(Math 150)	5
Chem 101 Gen Chem (Alg & Trig)	5	Physics 250 (Math 150) OR	
Eng 101 Composition	3	Chem 102 (Chem 101)	3-5
Gen Ed	3	Eng 102 Composition (Eng 101)	3
Psy 120 Freshman Orientation	1	HPER 101 P.E. Activity	2
	17	Gen Ed	3
mathematics as one resident the	diam participa		15-18
the leasure bearing sould be reference			
	SOPHO	MORE	
Math 260 Calc w/Anal		**Math 300 Fundamentals of Math	
(Math 250)	5	Thought (Co-reg Math 260)	3
Chem or Physics	5	Chem or Physics	3-5
HPER 160 Personal Health	2	Upper Div Math OR Gen Ed	3
Gen Ed [Bio 101]	4	Gen Ed	3
	4 16	[Comsc 120 Intro to Programming]	3
		—See Head of Math Dept. for assign	n-
Company of the Compan		ment of upper division advisor	15-17
**Offered Spring Semester only		ment of apper division advisor	13-17

*Offered Spring Semester only

() Prerequisite

[] Dept Recommendation

A major for the Bachelor of Science degree consists of 39 semester hours. The required courses are:

Math 150 Calculus with Analytic Geometry I
Math 250 Calculus with Analytic Geometry II
Math 260 Calculus with Analytic Geometry III

Math 300 Fundamentals of Mathematical Thought

plus 21 upper division hours in mathematics

In addition: 18 semester hours in physical sciences (excluding Chem 100 and Phys 100) are required.

For Additional Information Contact: Dr. J. Larry Martin Office: 200 Math-Science Building Phone: 240

BACHELOR OF SCIENCE IN EDUCATION MATHEMATICS

MAJOR CODE 26

Plan B - One Teaching Field Suggested Order of Study

1st Semester	FRESH	IMAN	2nd Semester	
Course	Hours	Course		Hours
Math 150 Calculus w/Analytic		Math 250	Calc w/Analytic Geome	trv 5
Geometry	5	Phys 250	(Math 150) OR	,
Chem 101 Gen Chem	5	Chem 10	2 (Chem 101)	3-5
Eng 101 Composition	3	Eng 102 (Composition	3
Gen Ed	3	Gen Ed		3
Psy 120 Freshman Orientation	1	HPER 101	1 P.E. Activity	2
	17			16-18

SOPHOMORE

Math 260 Calculus w/Analytic		Math 300 Fundamentals of	
Geometry	5	Math - Thought	3
Chem or Physics	3-5	Upper Division Math OR	
Psy 110 Psy of Human Development	5	[Comsc 120 Intro to Programming]	3
Gen Ed	3	HPER 160	2
	16-18	Gen Ed	9
		—See Head of Math Dept. for Assign-	139
		ment of upper division advisor	17

A major for the Bachelor of Science in Education with mathematics as one teaching field (Plan B) consists of a total of 33 semester hours in mathematics. The required courses are: Math 150 Calculus w/Analytic Geometry

Math 250 Calculus w/Analytic Geometry

Math 260 Calculus w/Analytic Geometry

Math 300 Fundamentals of Math - Thought

Plus 15 upper division hours in mathematics. In addition, 10 hours in the physical science, (exclusive of Chem 100 and Phy Sc 100), are required.

A major for the Bachelor of Science in Education degree with mathematics as one of two teaching fields (Plan A) consist of 30 semester hours. The required courses are:

Math 150 Calculus w/Analytic Geometry

Math 250 Calculus w/Analytic Geometry

Math 260 Calculus w/Analytic Geometry

Math 300 Fundamentals of Math - thought

Plus 12 upper division hours in mathematics.

For Additional Information Contact Dr. J. Larry Martin Office 200 Math-Science Building Phone 240

BACHELOR OF SCIENCE MEDICAL TECHNOLOGY Suggested Order of Study MAJOR CODE 64

1st Semester	FRESH	MAN 2nd Semester	
Course Chem 101 Gen Chem I (Math 140) Eng 101 Composition Math 140 Algebra & Trig HPER 101 Phys Activity Psy 120 Freshman Orientation	Hours 3 3 5 2 1 16	Course Chem 102 Gen Chem II (Chem 101) Chem 162 Qual Analysis (Chem 102) Bio 121 Zoology Eng 102 Composition (Eng 101) Gen Ed [Hist 110 or 120 U.S. Hist]	Hours 3 3 4 3 16
	SOPHO	MORE	
Chem 201 Quant Analysis (Chem 10 Bio 231 Medical Micro-Bio (1 course in Bio & Chem) Gen Ed [Literature] Gen Ed [Lit or Fine Arts]	5 5 3 3 16	Chem 300 Organic & Bio Chem (Chem 102) *Bio 318 Cell Biology Bio 305 Genetics (Bio course) Gen Ed [Speech] —See Head of Physical Science Dept for assignment of upper division advisor 216 Sci	5 4 4 3
	JUNIO	OR	
Bio 306 Human Phys & Anat (Bio 12' Phys 151 Elem College Physics (Math 140) Gen Ed (Polsc 120) Gen Ed (Lit or Fine Art) Gen Ed (HPER 160 Personal Health)	5 5 3 3 2 18	*Bio 456 Immunology Phys 152 Elem College Physics II (Phys 151) Chem 421 Instru Analysis Gen Ed (Behavioral or Social Science) Elective	3 5 3 3 3 17

SENIOR

The fourth year consists of 12 months of study at an accredited school of Medical Technology.

() Prerequisites

Course normally offered only every other year - Adjust schedule accordingly.

For Additional Information Contact: Dr. Vernon Baiamonte Office S-216 Phone 240 OR Dr. Melvyn Mosher Office S-308 & PA-C Phone 226/219

BACHELOR OF ARTS MUSIC MAJOR Suggested Order of Study

MAJOR CODE 43

	1st Semester	FRESHA	MAN	2nd Semester	
Course		Hours	Course		Hours
Music 111 /	Music Theory	3	Music 112	Music Theory (Mus 111)	3
Music - Ap	plied Music	2		oplied Music	2
	ge Ensemble	2		rge Ensemble	2
Music - Ap	plied Piano - may be w	aived		oplied Piano - may be wai	ved
	ssing piano proficiency			issing piano proficiency e	
Recital Atte	endance	150F work	Recital Att		
Eng 101 Co	mposition	3	Eng 102 Co	omposition (Eng 101)	3
Gen Ed [His	st 110 or 120]	3		ehavioral Scil	3
Gen Ed [HP	ER 101 or equiv	2		PER 160 Pers. Hlth.]	2
Psy 120 Fres	shman Orientation	1			16
		17			

[Enrollment in more than one Performing Ensemble is strongly encouraged]

SOPHOMORE

	OPHO	MOKE	
Music 211 Music Theory (Mus 112)	3	Music 212 Music Theory (Mus 211)	3
Music - Applied Piano - may be waived		Music - Applied Music	2
upon passing piano proficiency exam	1	Music - Large Ensemble	2
Music Applied Music	2	Music - Applied Piano - may be waived	
Music - Large Ensemble	2	upon passing piano proficiency exam	1
Recital Attendance	-	Recital Attendance	-
Gen Ed [Math 110 or higher]	3	Gen Ed - Elective	3
Gen Ed [Speech]	3	Gen Ed [Phys Sci]	5
Gen Ed [Polsc 120]	3	—See Head of Music Dept. for assign-	
	17	ment of upper division advisor	16

	Large Ensemble
1	Music 121, 122, 221, 222 Choir 2
	Music 151, 152, 251, 252 Orchestra 2
1	Music 191, 291 Marching Band-Fall only 2
i	Music 192, 292 Concert Band-Spring only 2

- () Prerequisite
- [] Dept recommendation

For Additional Information Contact:
Dr. Wayne Harrell
Music Bldg. 216 — Phone 262
Dr. F. Joe Sims (Vocal)
Music Bldg. 136 — Phone 243
Dr. Delbert Johnson (Instrumental)
Music Bldg. 132 — Phone 243



BACHELOR OF SCIENCE IN EDUCATION MUSIC MAJOR

MAJOR CODE 27

Suggested Order of Study

1st Semester	FRESHM	IAN	2nd Semester	
Course	Hours	Course		Hours
Music 111 Music Theory	3	Music 112 Mus	sic Theory (Mus 111)	3
Music - Instrumental Techniques	2	Music - Instrur	mental Techniques	3
Music - Applied Music	2	Music 131 Intro	o. to Professional	
Music - Major Performing Ensemble	2	Music Educa	ition	1
Recital Attendance	-	Music - Applie	d Music	2
Eng 101 Composition	3	Music - Major	Performing Ensemble	2
Gen Ed [Hist 110 or 120]	3	Recital Attenda	ance	-
Gen Ed [HPER 101 or equiv.]	2	Eng 102 Compo	osition (Eng 101)	3
Psy 120 Freshman Orientation	1_	Psy 110 Psy of F	Human Development	5
	18			19

[Enrollment in more than one Performing Ensemble is strongly encouraged] (At least 1 summer enrollment is strongly recommended to reduce semester enrollments)

SOPHOMORE

	50.110	MORE	
Music 211 Music Theory (Mus 112)	3	Music 212 Music Theory (Mus 211)	3
Music 181 Choral Conducting	2	Music 182 Instrumental Conducting	2
Music - Instrumental Techniques	2	Music - Instrumental Techniques	2
Music - Applied Music	2	Music - Applied Music	2
Music - Major Performing Ensemble	2	Music - Major Performing Ensemble	2
Recital Attendance	-	Music - Applied Piano - may be waived	
Gen Ed [Math 110 or higher]	3	upon passing piano proficiency exam	1
Gen Ed [Speech]	3	Recital Attendance	-
Gen Ed [Polsc 120]	3	Psy 310 Educ Psychology	3
	20	Gen Ed [Literature]	3
() Prerequisites		—See Head of Music Dept. for assign-	
[] Dept recommendation		ment of upper division advisor	
and represent the party of the same		Apply for admission to Teacher Education	on
Instrumental Techniques		program, 214 Math-Science Building	

Instrumental Techniques Music 231 String Music 232 Brass Music 361 Percussion Music 362 Woodwind

Major Performing Ensembles
Music 121, 122, 221, 222 Choir 2
Music 151, 152, 251, 252 Orchestra 2
Music 191, 291 Marching Band-Fall only 2
Music 192, 292 Concert Band-Spring only 2
Music 141, 142, 241, 242 Lab Band 1
Music 161, 162, 261, 262 Vocal Ensemble
(member of choir) 1 Music 171, 172, 271, 272 Brass Choir 1
Music 171, 172, 271, 272 Brass Choir 1

For Additional Information Contact: Dr. Wayne Harrell Music 216 — Phone 262
Dr. F. Joe Sims (Vocal) Music 136 — Phone 243
Mr. Delbert Johnson (Instrumental) Music 132 — Phone 243

ASSOCIATE OF SCIENCE **NURSING MAJOR** Suggested Order of Study MAJOR CODE 117

18

Students must apply for admission and be accepted into the Nursing Program before they may enroll in NURS 100, 120, 130, 210, or 240. Applications for the Nursing Program may be obtained from Department of Nursing Office in Kuhn Hall.

1st Semester	FIRST	YEAR 2nd Semester	
Course	Hours	Course	Hours
Nurs 100 Fund of Nursing	5	Nurs 110 Maternal & Child Health	9
Bio 221 Human Anatomy and Phys	5	Chem 100 Intro Chemistry	5
Eng 101 Composition	3	HPER 101 Intro to Physical Activities	
Soc 110 Intro to Sociology	3	Pys 100 General Psychology	
Psy 120 Freshman Orientation	1	,	3 19
	17		
Han Aparen nang sentanbian	SUM	MER	
Nurs 130 Psychiatric Mental			
Health Nursing	4		
	SECONI	D YEAR	
Nurs 220 Nursing Physical		Nurs 240 Nursing in Physical	
Illness I	9	Illness II	9
Bio 231 Fund of Medical Microbiolog	gy 5	Sp 100 Speech Techniques	3
Gen Ed [Literature or Fine Arts]	3	Gen Ed [PSc 120 or Hist 110]	3
	17		15
[] Dept Recommendation		For Additional Information Contact:	
		Mrs. Doris Elgin — Phone - 222	19.88
		207 Kuhn Hall	18139

PRE-MEDICINE PRE-DENTAL PRE-VETERINARY Suggested Order of Study

MAJOR CODE PRE-DENTAL 132 PRE-MED 135 PRE-VET 135

(This program will also qualify the student for the Bachelor of Science in Biology.)

1st Semester	FRESH	IMAN 2nd Semester	
Course	Hours	Course	Hours
Bio 101 Gen Biology	4	Bio 122 Zoological Survey	3
Chem 101 Gen Chem I	5	Chem 102 Gen Chem II (Chem 101)	3
Math 140 College Alg & Trig OR		Comp 120 Intro to Program (Math)	3
Math 150, Calculus w/Anal Geo	5	Eng 101 Composition	3
Psy 120 Freshman Orientation	1	Spch 100 Speech Techniques	3
	15	Gen Ed	2
	13	Gentu	17
	SOPHO	MODE	17
Rio 112 Rot Survey (Pie 101)			
Bio 112 Bot Survey (Bio 101)	3	**Bio 211 Microbiology (Bio 101	
Bio 210 Gen Physiology	4	& Chem 102)	5
Eng 102 Composition (Eng 101)	3	Phys 152 Elem Phy II (Phy 151)	3
Phys 151 Elem Physics I (Math 140)	5	Psy 110 Psy of Human Development	5
Gen Ed	2	Math 310 Elem Statistics	5 3
	5 2 17		16
	JUNI	OR	
Bio 331 Comp Anatomy (B)	5	Bio 318 Cell Biology (C)	4
Chem 301 Organic Chem I	5	OR	
Bus 302 Business Law	3	Bio 456 Immunology	(3)
Gen Ed	3	Chem 302 Organic Chem II	5
	16	Bio 462 Embryology (B)	5
		Gen Ed	3
			16-17
			10-17

Bio 316 Econ Botany (A) Bio 431 Animal Physiology (C) OR Bio 433 Histology (C) Chem 498 Biochemistry	3 5 (4) 3	Bio 402 Gen Ecology (D) Bio 306 Human Anat & Phys (B) Bio 305 Genetics Gen Ed	4 5 4 3
Bio 490 Seminar Gen Ed	1 3 15		2000

Students should also check with the pre-med advisor about any specific professional school that he or she wishes to attend. The individual school may have some other specific requirement.

() Prerequisite Gen Education Hist 110 or 120 Polsc 120 Literature/Fine Arts HPER	3 3 9 4	For Additional Information Contact: Dr. V. Prentice Pre-Professional Advisor Office: 308D Science Building Phone: 226
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ASSOCIATE OF ARTS PRE-OPTOMETRY Suggested Order of Study

MAJOR CODE 136

Requirements for admission vary from one School of Optometry to another. The courses listed below meet requirements for an A.A. degree at MSSC but may not be required at the second school. The <u>student is responsible</u> for obtaining a list of required courses that are acceptable to the School of Optometry that he or she plans to attend.

	FRESH	IMAN	
Course	Hours	Course	Hours
Eng 101 Composition	3	Eng 102 Composition (Eng 102)	3
Math 150 Calculus I (Alg & Trig)	5	Bio 121 Zoology	4
Hist 110 or 120 U.S. History	3	Psy 100 Gen Psychology	3
Chem 101 Gen Chem I	5	Chem 102 Gen Chem II	3
Psy 120 Freshman Orientation	1	HPER 101 or 160	2
-Obtain a list of courses required b	У		2 15
Optometry School of your choice.	17		
Phys 151 (Alg & Trig) Speech 100 Speech Techniques Eng 271 or 272 Eng Literature Electives for transfer	5 3 3 6 15	Phys 152 (Alg & Trig) Econ 202 Principles of Econ Electives for transfer	3 3 9 15
		For Additional Information Contac Mr. Arthur Strobel Office 224 Science Building Phone 226	t:

PRE-PHARMACY Suggested Order of Study

MAJOR CODE 137

Entrance requirements vary considerably from one Pharmacy School to another. The student should obtain a list of recommended courses from the Pharmacy School that he/she plans to attend and dates to file applications for admission.

1st Semester		2nd Semester	1963
Course	Hours	Course	Hours
Chem 101 Gen Chem	5	Chem 102 Gen Chem (Chem 101)	3
Math 140 Algebra & Trig	5	Chem 162 Qualitative Analysis	3
Eng 101 Composition	3	[Hist 110 or 120 U.S. History]	3
[Psy 100 or Soc 110]	3	Elective Math/Polsc/Econ/Lit	6-8
Psy 120 Freshman Orientation	leubnehell		15-17
	17		
		For Additional Information Contact	:
		Mr. Harrison Kash — Phone 226	

BACHELOR OF SCIENCE IN EDUCATION MEN'S PHYSICAL EDUCATION MAJOR Plan B-Single Teaching Field Suggested Order of Study

Office 224 Sci Bldg

1st Semester	FRESHM	and beinester	
Course	Hours	Course	Hours
Eng 101 Composition	3	Eng 102 Composition (Eng 101)	3
HPER 160 Personal Health	2	Gen Ed [Hist 110 or 120 U.S. Hist.]	3
HPER 150 Intro to Prof-Physical Ed	2	Gen Ed [Bio 121 Zoology]	4
PSc 120 Gov: National, State, Local	3	Gen Ed [Speech 100]	3
Psy 110 Psy of Human Develop	5	Gen Ed [Math 110 or equiv]	3
Psy 120 Freshman Orientation	1/16		3 16
	16		
	SOPHOM	ORF	
*HPER 251 Fund of Phys Ed	301110111	**HPER 252 Fund of Phys Ed	
Activities I	4	Activities II	4
Gen Ed [Eng 180 or 181 World Lit]	3	Soc 110 Intro to Sociology	3
Gen Ed [Music 110, Phil 201,		Psy 310 Ed Psy (Psy 110 or equiv)	3
Art 110 OR Drama 110]	3	Bio 221 Human Anat & Physio (Bio 12	
Gen Ed [Phys Sci 100]	5	—See Head of Phys Ed Dept for assig	
Gen Ed (1 11) 3 Ser 100)	3 5 15	ment of upper division advisor	111-
	13		
		—Apply for admission to Teacher Ed	
		tion Program 214 Math-Science Bldg	15
	JUNIO	R	
HPER 370 School and Comm. Health		**HPER 312 Tch Elem Sch	
*HPER 310 Elem School Phys Ed Pro	- 3	P.E. (HPER 310)	2
*HPER 351 Theo of Football		**HPER 342 Kin (Bio 221 or equiv	
(HPER 252)	3	. & HPER 252)	3
*HPER 331 Theory and Anal of Selec	t-	**HPER 350 Theo of Basket-	
ed Team Sports (HPER 252)	2	ball (HPER 252)	2
Gen Ed Humanities [Eng 271 or		**HPER 352 Theo or Spring	
Eng Lit 272]	3	Sports (HPER 252)	2
Elective	3 3 17	Ed 330 Struc of Teaching	2
	17	Ed 331 Video Teaching Lab	1
		Psy 302 Exceptional Child (5 hrs. Psy)	
		15, 552 Exceptional Clina (3 ms. 1 sy)	2 14

	SENI	OR	
+HPER 410 Rules and Officiating		Ed 370 Instructional Media	2
(HPER 150 & 252)	3	Ed 338 Teaching P.E. Sec School	2
HPER 470 Adm of Phys Ed 20 hrs.		Psy 412 Meas and Evaluation	2
(HPER)	3	Ed 402 Hist and Phil of Ed	2
*[HPER 450 Care and Prev of Injuries]		Ed 442 Crit Issues in Ed	2
OR HPER 220 & HPER 230		Ed 464 Student Teaching	6
(Bio 221 & HPER 342)	3	—Register for Natl Teachers	
HPER 431 Supervision of Interscho-		Exam 214 Math-Sci	_
lastic Programs (HPER 150 & 252)	3		16
Elective	3		
-Apply for Graduation - 100 Hearnes	15		

* Offered Fall Semester only

** Offered Spring Semester only

+ Offered even years only

() Prerequisite

[] Dept Recommendations

For Further Information Contact:

MAJOR CODE 28

Mr. Max Oldham Office: PE 118 Phone: 276

BACHELOR OF SCIENCE IN EDUCATION WOMEN'S PHYSICAL EDUCATION

Suggested Order of Study Plan B-Single Teaching Field

1st Semester	FRESH	IMAN 2nd Semester	
Course	Hours	Course	Hours
HPER 150 Intro to Prof P.E.	3	HPER 160 Personal Health	2
Eng 101 Composition	3	Eng 102 Composition	3 3
Psy 110 Psy of Human Developmen	t 5	Math 110 Intro to College Math	
Gen Ed [Hist 110 or 120 U.S. Hist]	3	Bio 121 Zoology	4
Psy 120 Freshman Orientation	1	Gen Ed [Polsc 120 U.S. State &	
	15	Local Gov't	3
			15
	SOPHO	OMORE	
*HPER 251 Fund P.E. Activities	4	**HPER 252 Fund P.E. Activities II	4
Phys 100 Fund Phys Sci [(Math 110)]	5	Bio 221 Human Anat & Physiology	5
Gen Ed [Speech]	5 3 3	Psy 310 Ed Psychology	3 3 3
Gen Ed [Humanities or Fine Arts]	3	Gen Ed [Humanities or Fine Arts]	3
	15	Elective [Sociology 110]	3
The second second			18
	JUN	NOR	
Gen Ed [Literature]	3	Ed 330 Structures of Teaching	2
HPER 370 School and Comm Health	1	Ed 331 Video-Teaching	1
(5 hours Biology)	3	**HPER 312 Teaching Elem	
*HPER 321 Theory and Analysis		School P.E.	2
of Selected Team Sports		**HPER 342 Kinesiology (Bio 221	
(HPER 150 & 252)	3	or equiv. & HPER 252)	3
*HPER 310 Elem School Physical Ed	3	**HPER 332 Rhythmic Form and	
Psy 302 Exceptional Child		Analysis (Dance Activity)	2
(5 hrs. Psy)	2	**HPER 322 Theory and Analysis of	
(5.113.1.5),	14	Individual Sports (HPER 150 & 252)	3
		Elective	3
			16

+ Offered Even Years only

[] Dept Recommendations

() Prerequisite

	SENI	IOR	
+HPER 410 Rules and Offici-		Ed 338 Teaching Health & P.E.	
ating (HPER 150 & 252)	3	in Secondary School	2
HPER 470 Org & Adm of Phys		Ed 370 Intro to Instructional Media	2
Ed (20 hours HPER)	3	Ed 402 Philosophy & History of	
*HPER 450 Care & Prevention of		Education	2
Injuries OR HPER 220 &		Psy 412 Measurement and Evaluation	
HPER 230 (HPER 221		OR Psy 451 Psy of Learning	
& HPER 342)	3	OR Ed 412 Social Foundations	
*HPER 431 Supervision of Interscho-		of Curriculum Dev	2
lastic Programs (HPER 252)	3	Ed 432 Critical Issues in Education	2
Electives	3-4	Ed 464 Student Teaching	6
	15-16		16
* Offered Fall Semester only		For Additional Information Contact:	
** Offered Spring Semester only		Mr. Max Oldham	

PRE-PHYSICAL THERAPY
For Transfer to University of Missouri - Columbia
Suggested Order of Study

Office: PE 118

MAJOR CODE 139

Phone: 276

1st Semester	FRESHA	MAN	2nd Semester	
Course	Hours	Course		Hours
Eng 101 Composition	3	Eng 102 Com	position (Eng 101)	3
Math 140 Algebra & Trig	5		eral Psychology	3
Bio 121 General Zoology	4		20 U.S. History	3
PSc 120 U.S. State and Local Govt	3		omy & physiology	
Psy 120 Freshman Orientation	1	(Bio 121)	,	5
	16	Sp 100 Speed	h Techniques	3
		ор пооросс	ques	17
	SOPHON	MORE		
Phys 151 Elem College Physics	5	Chem 101 Inc	org Chem (Math 140)	5
Psy 221 Psy of Personal Adjustment	3		eral Physiology (121)	4
Social Studies - Elective	3	Humanities -		6
Humanities - Elective	3	—Apply for a	admission to Physical	
Psy 310 Ed Psychology	_3_	Therapy Scho		15
	17	,		

Summer Sophomore year and Junior and Senior years to be completed at the University of Missouri - Columbia for Missouri residents. Residents of other states should consult with Dr. Ferron, Department of Biology, as individual School of physical therapy may require different pre-requisites. Completion of the above courses does not automatically admit an applicant into the physical therapy program at the University of Missouri.

() Prerequisites
[] Recommended

An Associate of Arts degree may be awarded if one of the Humanities electives is a literature course and if the student has 2 credits in HPER.

For Additional Information Contact: Dr. William L. Ferron Room - S 308-B Phone - 226

BACHELOR OF SCIENCE PHYSICS MAIOR Suggested Order of Study

MAJOR CODE 68

Physics students who plan to do graduate work in engineering should include Chem 101, Chem 102, Comp 120, Comp 240, Draf 110 and Draf 120 in their program as well as the following special courses: Chemical Engineering - Chem 201, Chem 301, Chem 302, Chem 401, Chem 402, and Chem 421; Electrical Engineering - Math 351, Math 412, Math 431 and Phys 480 (circuit analysis); Engineering Mechanics - Math 260, Math 351, Math 412, Math 431 and Phys 480 (fluid mechanics and heat transfer); Mechanical Engineering - Draf 130, Phys 480 (fluid mechanics and heat transfer) plus additional courses in machines.

1st Semester	FRESHA	and semester	
Math 150 Calculus I	Hours	Course	Hours
	5	Phys 250 Gen Physics I (Math 150)	5
*Chem 101 Gen Chem I (Alg & Trig)	5	Math 250 Calculus II (Math 150)	5 5 3 3
Eng 101 Composition	3 3	*Chem 102 Gen Chem II	3
Gen Ed [Hist 110 or 120 U.S. Hist]	3	Eng 102 Composition	3
Psy 120 Freshman Orientation	1 17		16
	17		
	SOPHOM	IORE	
Phys 260 Gen Physics II (Phys 250)	5	Phys 322 Classical Mechanics OR	3
Math 260 Calculus III (Math 250)	5	Phys 341 Thermal Physics	(4)
Gen Ed [PSc 120 Govt: National,		Phys 372 Electronic Circuits	4
Local, State	3	Math 322 Diff Equations	3
Gen Ed [HPER 101 Physical		Gen Ed [HPER 160 Personal Health]	3 2 3
Activities	2 15	General Education	3
	15		
			15 [16]
	JUNIO		
Phys 301 Modern Physics	4	Phys 341 Thermal Physics OR	4
Phys 381 Intermed Physics Lab OR	3	Phys 322 Classical Mechanics	(3)
Phys 401 Elcty & Magnetism	(4)	Phys 452 Quantum Mechanics	,-,
Gen Ed [Bio 101 General Biology]	4	Math Elective	3
General Education	3_	Gen Ed [Speech]	3 3 3
	14 [15]	General Education	3
		16 [15]	16 [15]
			10 (10)
	SENIO	R	
Phys 401 Elcty & Magnetism OR	4	Phys 452 Quantum Mechanics	
Phys 381 Interm Physics Lab	(3)	(or Elective)	3
General Education	3	Phys 498 Seminar	1
General Education	3	Electives	12
Phys or Math Elective	3		16
Electives	3		10
	16 [15]		

*Suggested elective (not strict requirement)

() Prerequisite

[] Dept Recommendation

Students should enroll in Comp 120 Computer Programming before the Junior year.

For Additional Information Contact: Dr. Russell Phillips Office: 226 Science Building

Phone: 226

BACHELOR OF SCIENCE IN EDUCATION PHYSICS MAJOR

MAJOR CODE 29

Plan B - Single Teaching Field Suggested Order of Study

1st Semester	FRESH	IMAN	2nd Semester	
Course +[Chem 101 Gen Chem I] Math 150 Calculus I Eng 101 Composition Psy 120 Freshman Orientation Gen Ed [Hist 110 or 120]	Hours 5 5 3 1 3 17	(Chem 101 Math 250 Cal Eng 102 Com	Gen Chemistry II]) culus II (Math 150) position (Eng 101) Physics I (Math 150)	3 5 3 5 16
	SOPHO	MORE		
Math 260 Calculus III (Math 250) Phys 260 Gen Physics II (Phy 250) Gen Ed (Literature) Gen Ed (Bio 101 Gen Bio or equiv)	5 5 3 4 17	Phy Elec +[Math 322 E Equations] Psy 110 Psy of HPER 160 Per Gen Ed - Spec —See Head o	(Math 260) Human Developmer sonal Health or equiv	2 3
	JUNI	OR		
Phys 301 Modern Physics Phys 381 OR Physics Elective Psy 310 Ed Psy (Psy 110 or equiv) Gen Ed - Humanities & Fine Arts PSc 120 Gov: U.S. St & Local	4 3 3 3 3 16	Phys 373 Elect Ed 331 Video Gen Ed - Hun	sical Mechanics OR ronic Circuits	2 3 (4) 1 3 2 6 17 (18)
	SENI	OR		
Phys 381 Intermediate Phys Lab OR Elective Phys 498 Seminar Gen Ed Elective Psy 302 Exceptional Child (5 hrs Psy) Apply for Graduation - 100 Hearnes Hall	3 1 3 2	Ed 432 Critica Ed 402 History Ed 370 Intro to Ed 333 Teachi Psy 412, Psy 45 (Select One	y & Phil of Ed o Instru Media ng Sci in Sec School i1, or Ed 412 e) ational Teacher	6 2-3 2-3 2 2 2-3
+ Suggested Electives (not strict requirements) () Prerequisites [] Dept Recommendation		For Additiona Dr. Russell A. Office - S226 Phone - 226	l Information Contac Phillips	t:

BACHELOR OF ARTS POLITICAL SCIENCE Suggested Order of Study

MAJOR CODE 44

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
PSc 120 Govt: U.S., State, Local	3	PSc 231 Intro to Pol Sci	3
Eng 101 Composition	3	Eng 102 Composition (Eng 101)	3
Hist 110 or 120 U.S. History	3	Gen Ed [Speech]	3
Gen Ed [Math 110 or equiv]	3	Gen Ed [Biology]	4
Psy 120 Freshman Orientation	1 15	Gen Ed [Literature of Fine Arts]	3 16
() Proroquisitos			

	durit	to	
ı	GENERAL EDUCATION (46)	100	
ı	Eng 101 Composition		3
ı	Eng 102 Composition		3
ı	(Eng 111 satisfies Eng 101 & 102)		
ı	Speech		3
ı	Sp 100 Speech Techniques		
ı	Sp 101 Argumentation & Debate		
ı	Sp 210 Discussion Techniques		
ı	Sp 302 Business & Professional		
ı	Mathematics 110 or above		3
ı	(write in)	
ı	HPER 101 P.E. Activity		2
ı	HPER 160 Personal Health or equiv.		2
ı	Literature - any level qualified		3
ı	Fine Arts		6
ı	Check two:		
ı	Art		
	Theatre		
	Foreign Language (beyond degree		
	requirement) Literature		
	Music		
	Philosophy		
	(write in	1	
	Biological Science	,	4
	Physical Science		5
	Hist 110 or 120 (Both required)		3
	PSc 120 U.S. State & Local Govt		3
	Behavioral and Social Sciences		3
	Check One:		
	Psychology		
	Sociology		
	Economics		
	History		
	Political Science		
	Geography		
	(write in)	
	Elective outside major area		3

(write in)

[] Dept Recommendations

POLITICAL SCIENCE The following must not duplicate the general education requirements. Intro to Pol Sci Psc 231 3 Upper division Pol Sci 3 (write in		_
general education requirements. Intro to Pol Sci Psc 231 3 Upper division Pol Sci 3 (write in	POLITICAL SCIENCE	
Intro to Pol Sci Psc 231 3 Upper division Pol Sci 3 (write in		he
Upper division Pol Sci 3 (write in	general education requirements.	
(write in) Upper division Pol Sci		3
Upper division Pol Sci 3 (write in		3
(write in) Upper division Pol Sci		
Upper division Pol Sci 3 (write in		3
(write in) Upper division Pol Sci	(write in)	
Upper division Pol Sci 3 (write in		3
(write in) Upper division Pol Sci		
Upper division Pol Sci 3 (write in		3
(write in) Upper division Pol Sci 3 (write in) Upper division Pol Sci 3 (write in) Upper division Pol Sci 3 (write in		-
Upper division Pol Sci 3 (write in) Upper division Pol Sci 3 (write in) Upper division Pol Sci 3 (write in		3
(write in) Upper division Pol Sci 3 (write in) Upper division Pol Sci 3 (write in)		2
Upper division Pol Sci 3 (write in		3
(write in) Upper division Pol Sci 3 (write in)		2
Upper division Pol Sci 3 (write in)		3
(write in)		2
the second secon		3
	(write in)	
EODEICKI I ANICI IACE 101	FOREIGNIANGUAGE	10

(write in)

For Additional Information Contact: Dr. D. Youst Office 116 Hearnes Hall Phone 280

PRE-LAW

Unlike most professional schools, law schools do not require that a student have taken any particular courses or have a particular major. For pre-law preparation, however, it is suggested that a student select a major in the social sciences, humanities, or business administration.

Most law schools have no special requirements for admission other than a baccalaureate degree.

For Additional Information Contact: Dr. Robert Smith, Office 307 Hearnes Hall, Phone 230

BACHELOR OF ARTS PSYCHOLOGY MAJOR Suggested Order of Study

1st Semester	FRESHM	and demester	
Course	Hours		Hours
Psy 110 Psy of Human Development	t 5	Eng 102 Composition (Eng 101)	3
Eng 101 Composition	3	Hist 110 or 120	3
Math 130 College Alg or higher	3	Gen Ed [Humanities or Fine Arts]	3
HPER 101 Intro to P.E.	2	Bio 121 Gen Zoology	4
Psy 120 Freshman Orientation	_1_	Elective	3
	14		16
	SOPHOM	IORE	
*Psy 311 Applied Stat (Psy 100 or 110)) 3	**Psy 312 Experimental Psychology	
Bio 306 Hum Anat & Phys (Bio 121)	5	(Psy 311)	5
Gen Ed Humanities or Fine Arts		Gen Ed [Humanities or Fine Arts]	3
[Literature]	3	Chem 101 Gen Chem (Math 130)	5
Gen Ed - Speech [Sp 100 Speech T	ech] 3	Gen Ed - Behavioral or Soc Sciences	3
HPER 160 Personal Health	2		3 16
	16		
	JUNIO	R	
*Psy 411 Sensation & Perception		**Psy 442 Physiological Psy (Psy 312)	3
(Psy 312)	3	PSc 120 Government: U.S. State & Loc	
*Foreign Language 101 [French		**Foreign Language 102 [French	
or German]	5	or German]	5
Bio 305 Genetics (Bio 121) OR		Elective in Supporting Area	3
*Bio 331 Comp Chordate (Bio 121)	4-5	Psy Elective	3
Elective in Supporting Area	3_		17
	15-16		
	SENIO	R	
*Psy 451 Psy of Learning (Psy 310		Psy 499 Independent Study (Consent)	3
or 311)	3	**Psy 452 Hist & Systems (Psy 311)	3
Psy 498 Seminar (Consent)	3	Elective in Supporting Area	3-6
Elective in Supporting Area	3-6	Electives	6
Electives	6_	-See Advisor about Graduate School	
—Make Application for Graduation	15-18	Admission	15-18
	UPPORTING	AREAS	
Biology and/or Chemistry	15	Math and/or Computer Science	15
Biology and/or Physics	15	Sociology and/or Anthropology	15
Chemistry and/or Physics	15	Marketing and Management	15
 Course offered Fall semester only 		For Additional Information Contact:	
** Course offered Spring semester of	only	Dr. J. Merrell Junkins	
() Prerequisite		Office: L15	
[] Dept Recommendation		Phone 265	

BACHELOR OF SCIENCE PSYCHOLOGY MAJOR Suggested Order of Study

1st Semester	FRESHA	MAN 2nd Semester	
Course	Hours	Course	Hours
Psy 110 Psy of Human Development	3	Eng 102 Composition (Eng 101)	3
Eng 101 Composition	3	Hist 110 or 120	3
Math 131 Finite Math	3	Bio 121 Gen Zoology	4
HPER 101 Intro to P.E.	2	Gen Ed [Humanities and Fine Art	s) 6
Psy 120 Freshman Orientation	1		16
*Psy 311 Applied Stat (Psy 100 or 110	SOPHON 3		
Phys 151 or Chem 101 (Math 131	, ,	**Psy 312 Exper Psy (Psy 311) Behavioral or Soc Sci GE Elec	15
or 130)	5	Speech 100 Speech Techniques	3
PSc 120 Govt: U.S. State & Local	3	Gen Ed [Humanities or Fine Arts]	3
HPER 160 Personal Health	2	Elective in Supporting Area	3
Elective in Supporting Area	3-5	—See Head of Psychology Dept. 1	
and the second section with the second section of the second seco	16-18	ment of upper division advisor	17
	JUNIC		
*Psy 411 Sensation & Perception	No. of Column	**Psy 442 Physio Psy (Psy 312)	3
(Psy 312)	3	**Psy 452 Hist & Systems (Psy 311)	
*Psy 451 Psy of Learning	2	Elective in Supporting Area	3-5
(Psy 320 or 311) Elective in Supporting Area	3 3-5	Psychology Elective	3
Psychology Elective	3		15-17
—See Advisor About Job Opportuni			
See Navisor Noodt job Opportun	15-17		
	SENIC	OR .	
Psy 498 Seminar (Consent)	3	Psy 499 Independent Study (Cons	ent) 3
Elective in Supporting Area	3-5	Elective in Supporting Area	3-5
Electives	9	Electives	9
-Make Application for Graduation		—See Advisor about Graduate Sc	hool
100 Hearnes	15-17	Admission	15-17
s	UPPORTING	G AREAS	
Department		Department	
Biology and/or Chemistry	20	Math and/or Computer Science	20
Biology and/or Physics	20	Marketing and Management	20
Chemistry and/or Physics	20	Law Enforcement	20
Computer Science and/or Business	20		
* Course offered only in Fall		For Additional Information Conta	ict:
** Course offered only in Spring		Dr. J. Merrell Junkins	
() Prerequisite		Office: L 15	
[] Dept Recommendation		Phone: 265	

BACHELOR OF SCIENCE IN EDUCATION PSYCHOLOGY — SPECIAL EDUCATION MAJOR Suggested Order of Study

1st Semester Course	FRESHM		2nd Semester	
Psy 110 Psy of Human Development	Hours	Course		Hours
Eng 101 Composition			position (Eng 101)	3
	3	Hist 110 or 1.		3
Math 110, Math 130 or 131 HPER 101 Intro to P.E.	3	Bio 121 Gen		4
	2		manities or Fine Arts	
Gen Ed - Humanities or Fine Arts	3		Recommended]	3
Psy 120 Freshman Orientation	1		navioral or Social Sci	
	17		[ecommended]	3
		() Make Ap	plication for Admission	n to
		Teacher Edu	cation Program	16
	SOPHOM			
*Psy 311 Applied Stat Behav and Nat		**Psy Experii	mental Psy (Psy 311)	5
Sciences (Psy 110 or 100)	3	**Ed 312 Pro	b Teach Arithmetic	
Psy 302 Exceptional Child (5 hrs Psy)	2		Math 110 or 120)	2
PSc Government: U.S. St & Local	3	**Ed 352 Mei	th's Teach Children	
Psy 310 Ed Psy (Psy 110)	3	with LD (P		3
Chem 100 or 101 (Math 130), Physics			manities or Fine Arts	3
100 or *Physics 151 (Math 110 or		**HPER 340 M	Motor Learning in P.E.	
130)	5	(Consent)	into Learning III . L.	3
	5	(001100111)		3 16
				10
	JUNIOF	2		
*Psy 411 Psy of Sen and Perception			eories of Personality	
(Psy 312)	3	(Psy 100 or		3
*Psy 451 Psy of Learning (Psy 310 or		**Psy 432 A b	normal Psy (7 hrs. Psy)	3
311)	3	**Psy 442 Phy	rsiology Psy (Psy 312)	3
Ed 340 Lang Arts and Reading	5	**Fd 492 Rem	nedial Reading	,
*Ed 351 Teach Ment Retard (Psy 302)	3	(Educ 340)	redial Reading	2
*Ed 360 Meth's Teach Emo Dis-	-		Speech Correction	2
turbed Child (Psy 302)	3	3pccc11 432	speech Correction	3 14
(1.5) 502)	3 17			14
	"			
	SENIOR			
Psy 498 Seminar: Behavioral Manage			and Eval (Psy 310	
ment Techniques	3	or 311)	and Eval (FSy 310	2
Ed 330 Struc Teach Sec (Psy 310)			endent Study or a	2
Ed 331 Video Teach Lab (Con-	-	Prof Educ P	lock Course	12
current with Ed 330)	1 1			1-3
HPER 370 School and Community	, ,	d 370 Intro to	Juliana (F.)	2
Health (5 hrs of Biology)			d History of Ed	2
Gen Ed Speech		d 432 Critica		2
Electives	3-6	d 444 Studer	t Teaching - Com-	
Licetives	15-18	bination (E	d 330)	6
() See Director of Supervised Teach		\ D - : (15-18
() See Director of Supervised Teach for Placement in Spring	() Kegister to	or National Teacher Ex	am
() Make Application for Graduation		214 Math-	Sci Bidg.	
		- A 1 11-1	11. () -	7
* Course Offered only in Fall	1	or Additiona	Information Contact:	
** Course Offered only in Spring		Dr. J. Merrell	Junkins	-
() Prerequisite		Room - L15		
Dept Recommendation -	P	hone - 265		
not required				

ASSOCIATE OF SCIENCE RADIOLOGIC TECHNOLOGY Suggested Order of Study

MAJOR CODE 122

Students must apply for admission and be accepted into the Radiologic Technology Program before they may enroll in RAD 101, 170, 142, 132, 152, 241, 160, 180, 271, 111, 121, 252, or 282. Application for admission for the Radiologic Technology Program may be obtained from Mr. James K. Maupin or Mr. Wiley Beals.

1st Semester Course Rad 101 Intro to Radiology Rad 170 Radiologic Physics I Rad 142 Radiographic Positioning I Bio 221 Human Anatomy and Phys Psy 120 Freshman Orientation HPER 101 Physical Education	FIRST YI Hours 3 3 3 5 1 2 17	Rad 132 Principles of Radiographic Exposure Rad 152 Osteology Rad 241 Radiographic Positioning II Math 30 Interm Algebra or Math 130 College Algebra Psy 100 General Psychology	3 3 3 3 3 15
	SUMM	ER	
Rad 160 Film Critique Rad 180 Practicum in Radiology I Rad 271 Radiologic Physics II	2 5 3 10		
	SECOND	YEAR	
Rad 111 Medical Terminology Rad 121 Patient Care and Special Techniques Chem 100 Intro Chemistry Eng 101 Composition Psy 221 Psy of Personal Adjustment	5 3 5 3 3 19	Rad 252 Radiographic Positioning Rad 282 Practicum Radiology II Gen Ed [Hist 110 or PSc 120] Sp 100 Speech Techniques OA 101 Elementary Typing Gen Ed [Literature or Fine Arts]	3 3 3 3 3 18
	*6111.41.4	Manual Ma	
	*SUMM	EK	
Rad 290 Practicum in Radiology II Rad 299 Advanced Radiology	5 3 8		
*Summer classes meet a minimum			
of 14 weeks [] Dept Recommendation		For Additional Information Contact: Mr. James K. Maupin Guest House (West of Bus. Bldg.)	

Phone - 272

ASSOCIATE OF SCIENCE SECRETARIAL SCIENCE Suggested Order of Study

MAJOR CODE 120

1st Semester	FIRST YI	AR 2nd Semester	
Course OA 111 Elementary Shorthand OA 102 Inter Typewriting GB 101 Intro to Business Eng 101 Composition Math 30 Inter Algebra or Math 110 Psy 120 Freshman Orientation	Hours 3 3 3 3 1 16	Course OA 120 Intermediate Shorthand OA 200 Advanced Typewriting Gen Ed [Lit or Fine Arts] HPER 101 Intro to Physical Activities Gen Ed [PSc 120 or Hist 110] Sp 100 Speech Techniques	Hours 3 3 3 3 7
	SECOND	YEAR	
OA 210 Advanced Shorthand GB 121 Office Machines Acct 101 Elem Accounting I Gen Ed [Psy 100 or Soc 110] Econ 201 Principles of Economics	3 3 3 3 3 15	OA 230 Secretarial Procedures OA 220 Dictation & Transcription GB 320 Bus Communications GB 301 Business Law Gen Ed [Science]	3 3 3 4-5 16-17
[] Dept Recommendation	7.44	For Additional Information Contact Mrs. L. Miner Office - 107 Bus. Bldg.	ct:

SECRETARIAL-TYPIST CERTIFICATE ONE-YEAR SCHEDULE Required Order of Study

Phone - 249

MAJOR CODE 130

1st Semester		2nd Semester	
Course	Hours	Course	Hours
OA 210 Advanced Shorthand	3	OA 200 Advanced Typewriting	3
GB 101 Intro to Business	3	OA 220 Dictation & Transcription	3
GB 110 Business Math	3	GB 320 Business Communications	3
Eng 101 Composition	3	GB 121 Office Machines	3
Psy 120 Freshman Orientation	1	Acct 101 Elem Accounting I	3
Sp 100 Speech Techniques	3		
	16		15

For Additional Information Contact: Mrs. L. Miner Office - 107 Bus. Bldg. Phone - 249

BACHELOR OF ARTS MAIOR CODE 46 SOCIOLOGY Suggested Order of Study 1st Semester FRESHMAN 2nd Semester Course Hours Course Hours Soc 110 Intro to Sociology [Soc 152 Anthropology] 3 Eng 101 Composition 3 Eng 102 Composition 3 Hist 110 or 120 U.S. History 3 Pol Sci 120 U.S. State and HPER 101 Physical Activity Local Govt 3 Psy 120 Freshman Orientation 1 Gen Ed [Speech] 3 Gen Ed [Fine Arts] Gen Ed [Bio 121 or equiv] 3 **CHECKLIST GENERAL EDUCATION (46 hrs)** Hours SOCIOLOGY (30 hrs) Hours **English Composition 101** 3 The following must not duplicate the **English Composition 102** General Education Requirements. 3 Speech 3 Soc 110 Introduction to Sociology Check One: Soc 210 Social Problems (Soc 110) 3 Speech 100 Speech Techniques Soc 311 Social Stratification Speech 101 Argumentation and (Soc 110) Debate Soc 321 Social Institutions (6 hrs) 3 Speech 210 Discussion Techniques Soc 421 Sociological Theory Speech 302 Business and Professional (9 hrs Soc) 3 Mathematics [131] or 110 Soc 432 Sociological Investigations (12 hrs Soc) HPER 101 P.E. Activity Math 310 Statistics or Psy 311 HPER 160 Personal Health or Statistics or equivalent 3 equivalent Literature, any level qualified 3 Remaining Hours may be upper or lower division Sociology electives Fine Arts Check Two: Theatre Literature Music Philosophy or Ethics ADDITIONAL SUPPORTING AREA **OUTSIDE SOCIOLOGY MAJOR:** requirements of 10 hrs. minimum Cr. hrs 15 Biology [Suggest Bio 121] Physical Science, Chemistry, Geology, or Physics Foreign Language U.S. History 110 or 120 Political Science 120 Behavioral and Social Sciences Check One: Psychology, General For Additional Information Contact: Economics, 201 or 202 Mr. Gubera or Mr. Tate History Room - H309 Political Science Phone - 234 Geography Elective Outside Major Area: 3 Lower or Upper Division () Prerequisite

[] Dept Recommendation

[] Dept Recommendation

BACHELOR OF SCIENCE IN EDUCATION SOCIAL SCIENCE MAJOR

MAJOR CODE 30

History Emphasis Suggested Order of Study

1st Semester	FRESHA	IAN	2nd Semester	
Hist 110 U.S. History	3	Hist 120	U.S. History	3
Eng 101 Composition	3	Eng 102 (Composition (Eng 101)	3
Psy 110 Psy of Human Development	5	Gen Ed [Speech]	3
Gen Ed [Math]	3	Gen Ed [Bio Sciencel	4
Gen Ed [HPER]	2	Gen Ed [Lit or Fine Arts]	3
Psy 120 Freshman Orientation	1			16
	17			
() Prerequisites				

GENERAL EDUCATION (46) Eng 101 Composition 3 Eng 102 Composition 3 (Eng 111 satisfies Eng 101 & 102) Speech 3 Sp 100 Speech Techniques Sp 101 Argumentation & Debate Sp 210 Discussion Techniques Sp 302 Business & Professional Mathematics 110 or above HPER 101 P.E. Activity 2 HPER 160 Personal Health or equiv 2 Literature - any level qualified 3 Fine Arts Check Two: Art Theatre Foreign Language (beyond degree requirement) Literature Music Philosophy (write in Biological Science Physical Science Hist 110 or 120 (Both required) 3 PSc 120 U.S. State & Local Govt Behavioral and Social Sciences Check One: Psychology Sociology **Economics** History Political Science Geography (write in) Elective outside major area (write in)

HISTORY (49)		
The following must not duplicate cou	rs	es
used for General Education requireme	n	ts.
Hist 110 or 120 U.S. History (both req.)		3
Hist 200 Western Civilization		3
Hist 205 or 210 Modern Europe		3
Econ 201 Principles of Econ - (Macro)		3
Pol Sci elective		3
(write in)	
Geography elective		3
(write in)	
Geography elective		3
(write in)	
Sociology elective		3
(write in)	
Social Science elective		7
(write in)	
()	
()	
Upper Division U.S. History		6
(write in)	
Upper Division European History		6
(write in)	
Upper Division History		6
(write in)	

EDUCATION (25)	13/39
Ed 200 Exploratory Field Experiences	
(to be taken between semesters of	
sophomore year)	1
Psy 302 Exceptional Child	2
Psy 310 Ed Psychology	3
Ed 330 Struct of Teach-	
ing - Secondary	2
Ed 331 Video Teaching Lab - Sec	1

For Additional Information Contact: Dr. Tom L. Holman Office 112 Hearnes Hall Phone 280

BACHELOR OF SCIENCE IN EDUCATION SOCIAL SCIENCE MAJOR Political Science Emphasis

MAJOR CODE 30

The state of the s	Unitical Scien	iice Liiipiiasis	
1st Semester	FRESH	IMAN 2nd Semester	
Course	Hours	Course	Hours
PSc 120 U.S. State & Local Govt	3	Hist 110 U.S. History	3
Eng 101 Composition	3	Eng 102 Composition (Eng 101)	3
Psy 110 Psychology of Human Dev	5	Gen Ed [Speech]	3
Gen Ed [Math]	3	Gen Ed [Bio Sci]	4
Gen Ed [HPER]	2	Gen Ed [Lit or Fine Arts]	3
Psy 120 Freshman Orientation	1		16

17 () Prerequisites []Dept Recommendations

	() Frerequisites []Dept Reco	mn	nei
	GENERAL EDUCATION (46)		
	Eng 101 Composition		3
	Eng 102 Composition		3
	(Eng 111 satisfies Eng 101 & 102)		
	Speech		3
	Sp 100 Speech Techniques		
	Sp 101 Argumentation & Debate		
	Sp 210 Discussion Techniques		
	Sp 302 Business & Professional		
	Mathematics 110 or above		3
	(write in	.))
	HPER 101 P.E. Activity		2
	HPER 160 Personal Health or equiv		2
	Literature - any level qualified		3
	Fine Arts		6
	Check Two:		
	Art		
	Theatre		
	Foreign Language (beyond degree		
	requirement)		
	Literature		
	Music		
	Philosophy (write in	,	
	Biological Science	.)	
	Physical Science		4
	Hist 110 or 120 (Both required)		5
	PSc 120 U.S. State & Local Govt		3
	Behavioral and Social Sciences		3
	Check One:		3
	Psychology		
	Sociology		
	Economics		
	History		
	Political Science		
	Geography		
	(write in	.)	
	Elective outside major area	,	3
	(write in	.)	
ľ		,	

POLITICAL SCIENCE (48)					
The following must not duplicate course	es				
used for General Education requirements.					
Hist 110 or 120	3				
Hist 200 Western Civ	3				
Hist 205 or 210	3				
Upper division European Hist					
(write in)					
Upper division U.S. Hist	3				
(write in)					
Econ 201	3				
Geography elective	3				
(write in)					
Geography elective	3				
(write in)					
Sociology elective	3				
PSc 120 Intro to Pol Sci	3				
Upper division Pol Sci	3				
(write in)					
Upper division Pol Sci (write in)	3				
Upper division Pol Sci	2				
(write in)	3				
	3				
(write in)	2				
	3				
(write in)	3				
	3				
(write in)					

EDUCATION (25) Ed 200 Exploratory Field Experiences (to be taken between semester of sophomore year) Psy 302 Exceptional Child Psy 310 Ed Psychology 3 Ed 330 Struct of Teaching - Secondary 2 Ed 331 Video Teaching Lab - Sec

For Additional Information Contact: Ms. Annetta St. Clair Office 305 Hearnes Hall Phone 234

BACHELOR OF SCIENCE IN EDUCATION SOCIAL SCIENCE MAJOR

MAJOR CODE 30

Sociology Emphasis Suggested Order of Study

FRESHMAN	YEAR 2nd Semester	
Hours	Course	Hours
3	Eng 102 Composition	3
3	Hist 120 U.S. History	3
3		
3	Development	5
2	History 200 Western Civ to 1500	3
1		3
15		17
	Hours 3 3 3 3 2	Hours Course Eng 102 Composition Hist 120 U.S. History Psy 110 Psy of Human Development History 200 Western Civ to 1500 Gen Ed [Fine Arts]

CHECKLIST

	CH
GENERAL EDUCATION	Hours
English Composition 101	3
English Composition 102	3
Speech	3
Check One:	
Speech Techniques 100	
Argumentation and Debate 101	
Discussion Techniques 210	
Business and Professional 302	
Mathematics 110 or above	3
If above, write in:	
P.E. Activity 101	2
Personal Health 160 or equivalent	2 3
Literature, any level qualified	3
write in:	
Fine Arts	6
Check Two:	
Art	
Theatre	
Literature	
Music	
Philosophy or Ethics	
write in:	
Foreign Language	
Biology [Suggest Bio 121]	4
Physical Science, Chemistry, Geology, or Physics	5
write in:	5
U.S. History 110 or 120	
(Both required)	3
Political Science 120	3
Elective Outside Major Area	3
Lower or Upper Division:	3
write in:	DITY CO.

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	1000
EDUCATION REQUIREMENTS (27 hrs)	
Psy 110 Human Growth and	
Development	5
Ed 200 Exploratory Field	
Experience	1
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	3
Ed 330 Structures of Teaching	
Soc Sci	2
Ed 331 Video Teaching Lab	1
Professional Semester	16

() Prerequisites
[] Dept Recommendation

For Additional Information: Contact: Mr. Gubera or Mr. Tate Room Number - H-309 Phone -234

BACHELOR OF ARTS SPANISH Suggested Order of Study

MAJOR CODE 48

urs
5
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3
3
3
15

Required courses for Spanish major: Span 101, 102 Beginning Spanish

201 Intermediate Readings and Conversation

202 Intro to Spanish Literature (Span 201)

301 Spanish Composition (Span 202)

302 Advanced Spanish Composition (Span 301)

321 Survey of Spanish Literature (Span 202) 322 Survey of Spanish Literature (Span 202) 332 Intro to Spanish American Literature (Span 301, 302)

*+ 421 Nineteenth Century Spanish Novel (Span 322) ** 431 Don Quixote (Span 321)

*++434 The Spanish American Novel (20 hours Spanish)

Offered Fall Semester only

Offered Spring Semester only Offered odd years only

++ Offered even years only

() Prerequisite

[] Dept Recommendation

For Additional Information Contact:

Mr. Francisco Colon

Office: Library 4 (rear basement)

Phone: 264

BACHELOR OF SCIENCE IN EDUCATION SPANISH

MAJOR CODE 25

Plan B-Single Teaching Field Suggested Order of Study

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
Span 101 Beginning Spanish	5	Span 102 Beginning Spanish	
English 101 Composition	3	(Span 101)	5
Psy 110 Psy of Human Development	5	English 102 Composition (Eng 101)	3
Gen Ed [Hist 110 or 120]	3	Gen Ed [Bio 101]	4
Psy 120 Freshman Orientation	1	Gen Ed [Polsc 120]	3
	17	HPER 101 Physical Activity	2
		, ,	17

	SOPHO	OMORE	
Span 201 Intermediate Reading		Span 202 Intro to Span Lit	
and Conversation	3	(Span 201)	3
Gen Ed [Math 110 or equiv]	3	Psych 310 Ed Psych	3
Gen Ed [Literature]	3	Gen Ed [Phys 100 or equiv]	5
Gen Ed [Speech]	3	Gen Ed [Lit or Fine Arts]	3
Elective	3	HPER 160 Personal Health or equiv	2
	15	—See Head of Language Department	for
		assignment of upper division advisor -	
		300 Hearnes.	16

Required courses for Spanish major:

201 Intermediate Readings and Conversation 202 Intro to Spanish Literature (Span 201)

* 301 Spanish Composition (Span 202)

- ** 302 Advanced Spanish Composition (Span 301)
- * 321 Survey of Spanish Literature (Span 202)
- ** 322 Survey of Spanish Literature (Span 202)
- * 332 Intro to Spanish American Literature (Span 301, 302)
- *+ 421 Nineteenth Century Spanish Novel (Span 322)
- ** 431 Don Quixote (Span 321)
- *++434 The Spanish American Novel (20 hours Spanish)
- * Offered Fall Semester only
- ** Offered Spring Semester only
- + Offered odd years only
- ++ Offered even years only

Spanish Education majors are encouraged to follow Plan A and select a second teaching field.

Plan A - Spanish as one of two teaching fields requires:

Span 101-102, 201, 202, 301, 303 and one course selected from 321, 322, or 332.

Students with a strong background in Spanish may arrange for a test for credit in beginning Spanish with Mr. Colon.

() Prerequisites

[] Dept Recommendation

For Additional Information Contact: Mr. Francisco Colon

MAJOR CODE 47

Office: Library 4 (rear basement)

Phone: 264

BACHELOR OF ARTS SPEECH AND THEATRE MAJOR - SPEECH EMPHASIS Suggested Order of Study

1st Semester	FRESH	MAN 2nd Semester	
Course	Hours	Course	Hours
Spch 101 Argumentation and Debate	e 3	Spch 102 Public Speaking (Spch 100)	3
Spch 121 Forensics Workshop	1	Spch 122 Forensics Workshop	1
or Debate Workshop (Varsity)	(2)	or Debate Workshop (Varsity)	(2)
Eng 101 Composition	3	Eng 102 Composition (Eng 101)	3
Gen Ed [Hist 110 or 120]	3	Gen Ed [Bio 101 Gen Bio or equiv]	4
HPER 101 Phys Activities	2	Gen Ed [Behav Science]	3
Psy 120 Freshman Orientation	1	Gen Ed [HPER 102]	2
Spch 100 Speech Techniques	3		16-17
	16-17		

	SOPHON	MORE	
Spch 210 Discussion Techniques	3	Spch 212 Oral Interpretation	3
Spch 221 Forensics Workshop or Debate Workshop (Varsity)	(2)	Spch 222 Forensics Workshop	1
Eng 271 English Literature	(2)	or Debate Workshop (Varsity) Elective	(2)
Gen Ed [Math 110 or equiv]	3	Gen Ed [Physc 110 Intro to	(3)
Gen Ed [Art 110 or Music 110]	3	Physical Scil	5
Gen Ed [Polsc 120 - U.S. State Local]	3_	Eng 272 English Literature	3
	16-17	—See Head of Speech Department for assignment of upper division advisor 10	6-17
	JUNIO	OR .	
Sp 131 Voice and Articulation OR		Sp 302 Business & Professional Speech	3
Sp 300 Speech Correction	3	Th 332 Hist of Theatre	3
Th 331 Hist of Theatre	3 3 5	Foreign Language	3 5 4
Foreign Language Electives	3	Electives	4
Electives	15		15
	SENIO	R	
Sp 300 Speech Correction OR	JE! 41 O	Sp 311 History and Criticism of	
Sp Cor 131 Voice & Articulation	3	Modern Public Address	3
Th 351 Play Production	3 3 9	Sp 498 Seminar	3 9 15
Electives	9	Electives	9
—Apply for graduation - 100 Hearnes Hall	15		15
() Proroquisito		Fan Addising Hafamatian G	
() Prerequisite [] Dept Recommendation		For Additional Information Contact: Dr. Dennis H. Rhodes — Phone: 227	
To be recommendation		Office: SD 108	
	Market State of the State of th		

BACHELOR OF ARTS SPEECH AND THEATRE MAJOR Theatre Emphasis

MAJOR CODE 47

The Semester Course Theatre 110 Theatre Appreciation Speech 100 Speech Techniques Eng 101 Composition Hist 110 or 120 U.S. History Gen Ed (Literature) Psy 120 Freshman Orientation	FRESHM Hours 3 3 3 4 3 1 1 16	Course Theatre 122 Theatre Lab Eng 102 Composition Gen Ed (Biological Science) Polsc 120 U.S. State & Local Govt Gen Ed (Behav Sci) HPER 101 P.E. Activities	Hours 2 4 4 3 4 3 4 2 17
Theatre 221 Theatre Lab Sp 101 Argum. & Debate Gen Ed (Math 110 or equiv) Foreign Language Gen Ed (Literature)	3 3 3 16	Sp 212 Oral Interpretation Elective (Theatre 222 Theatre Lab) Gen Ed (Physical Science) Foreign Language HPER 160 Personal Health or equiv. —See Director of Theatre for assignment of upper division advisor	3 2 5 5 2 17
Required courses for a major empha Theatre Lab Theatre 331: History of the Theatre Theatre 332: History of the Theatre Theatre 342: Beginning Acting Theatre 351: Play Production Theatre 362: Stage & Costume Desig Theatre 372: Directing for the Stage	3 3 3 3	e are: Theatre 422: Styles in Acting and Interpretation Theatre 431: Creative Dramatics Theatre 441: Stage Design Sp 101: Argum & Debate Sp 212: Oral Interpretation Sp 498: Seminar or Sp 211 Disc. Techniques	3 3 3 3 3 3 4 40

For Additional Information Contact: Mr. M. Brietzke, Office Phone: 268

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BACHELOR OF SCIENCE IN EDUCATION SPEECH AND THEATRE - SPEECH EMPHASIS Plan B-Single Teaching Field Suggested Order of Study

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MAJOR CODE 31

and Compete

1st Semester	FRESHMA	N 2nd Semester	
Course	Hours C	ourse	Hours
*Spch 101 Argumentation & Debate	3	†**Spch 102 Public Speaking	
Spch 121 Forensics Workshop or	1	(Sp 100)	3
Debate Workshop (Varsity)	(2) S	pch 122 Forensics Workshop or	1
Eng 101 Composition	3	Debate Workshop (Varsity)	(2)
Gen Ed [Hist 110 or 120]		ng 102 Composition (Eng 101)	3
HPER 101 Phys Activities		sy 110 Psych of Human	
Psy 120 Freshman Orientation	1	Development	5
Spch 100 Speech Techniques		Sen Ed [Bio 101 or Equiv]	4
spen 100 speech rechniques	16-17	ien ed (bio 101 of equiv)	16 17
	10-17		10-17
	SOPHOMO	RE	
Spch 210 Discussion Techniques		†**Spch 212 Oral Interpretation	3
Spch 221 Forensics Workshop or	1 S	pch 222 Forensics Workshop or	1
Debate Workshop (Varsity)	(2)	Debate Workshop (Varsity)	
Eng 271 English Literature		sy 310 Educ Psych (Psy 100)	3
Gen Ed [Math 110 or equiv]		ien Ed [Physc 100]	(2) 3 5 3
Gen Ed [Art 110 or Music 110]			2
		ng 272 English Literature	3
Gen Ed [Polsc 120]		duc 200 Exploratory Field	1
	16-17	Experiment	1
		-See Head of Speech Department	
	a	ssignment of upper division adviso	r
			16-17
	IIINIIOD		
1*C	JUNIOR		2
†*Spch 300 Speech Composition		pch 302 Business & Prof Speech	3
Spch 321 Forensic Workshop or		pch 322 Forensic Workshop or	1
Debate Workshop (Varsity)	(2)	Debate Workshop (Varsity)	(2)
††*Spch Cor 131 Voice &		our 111 News Writing	(2) 3 2 3 2
Articulation	3 C	en Ed [HPER 160 or equiv]	2
Th 331 Hist of Theatre		h 332 Hist of Theatre	3
Psy 302 Exceptional Child (Psy 110)		d 330 Structure of Teaching	2
Elective [Literature]		d 331 Video Teaching Lab	1_
	15-16		15-16
C LOSS D LI A LL	SENIOR	(: 151 :: 6	10
Spch 311 Public Address		rofessional Education Semester	16
Spch 498 Seminar		-Register for National Teacher	
Spch 421 Forensic Workshop or		xamination - 214 MS	
Debate Workshop (Varsity)	(2)		16
Eng 319 Composition for Teachers	3 2 3		
Ed 422 Teaching Reading in Sec	2		
Th 351 Play Production	3 () Prerequisites	
—Apply for graduation 100 Hearnes		Dept Recommendation	
Hall	15-16		

Plan A (teaching two subjects) follows the above excluding Spch 300, Spch Cor 131, and 1 credit hour for Forensic Workshop.

All electives recommended in English

* Offered in Fall only
** Offered in Spring only
† Offered in Odd years only
††Offered in Even years only

For Additional Information Contact: Dr. Dennis H. Rhodes Office: SD 108 Phone: 227

BACHELOR OF SCIENCE IN EDUCATION SPEECH & THEATRE

MAJOR CODE 31

Theatre Emphasis Plan B - Single Teaching Field **Suggested Order of Study**

1st Semester	FRESH	MAN	2nd Semester			
Course	Hours	Course		Hours		
Theatre 110 Theatre Appreciation	3	Theatre	122 Theatre Lab	2		
Theatre 121 Theatre Lab	2	Eng 102	Composition (Eng 101)	2 3 4		
Sp 100 Speech Techniques	3	Gen Ed [Bio 101 or equiv	4		
Eng 101 Composition	3	Psy 110 P	sy of Human Development	5		
Gen Ed [Hist 110 or 120]	3	Elective	Isee recommended courses			
Gen Ed [HPER 101 or equiv]	2	below	·]	3		
Psy 120 Freshman Orientation	1	-Make	application to Teacher			
	17	Educa	tion Program 214 MS			
				17		
	SOPHO	MODE				
Elective Theatre 221, Thea Lab	2		[Theatre 222 Theatre Lab]	2		
	3		12 Oral Interp	3 3		
Gen Ed Math 110 or equiv	3		Ed Psy (5 hrs Psy)	2		
Gen Ed Humanities [Eng 180 or	2		Phys 100 Intro to	3		
Eng 181 World Masterpieces	3	Physic		-		
Elective [Art 100 Art Comp] Pol Sci 120 U.S. St & Local Govt	3		Eng 271 or 272 Eng Lit	2		
Poi Sci 120 U.S. Si & Local Govi	17	Gental	eng 27 i or 272 eng eiu	5 3 17		
	"			"		
JUNIOR						
*+Sp 300 Speech Comp	3		332 History of the Theatre	3		
*++Theatre 441 Stage Design	3		362 Stage Costume & Design	3 3 3		
Theatre 331 Hist of Theatre	3		372 Directing for Stage	3		
Theatre 442 Beginning Acting	3		tructures of Teaching (Psy			
*Theatre 351 Play Production	3 . 3		310 plus 2.2 GPA]	2		
Elective [Theatre Lab]	2		ideo Teaching Lab	2 1 3 15		
	17		[see below]	3		
				15		
	SENI	OR				
Theatre 431 Creative Dramatics	3	Profession	onal Education Semester	16		
*+Sp 411 Seminar - Studies in Disc						
Electives [see below]	6	Register	for Nat'l teachers exam			
—Apply for graduation 100 Hearne	es Hall		h & Science Bldg.			
Psy 302 Exceptional Child	2					
	16			16		

-All Electives recommended in Art, Music, History, Literature or Business Management. —For Plan A (teaching two subjects) follow the above but SP 300 & Theatre 431 not required.

- () Prerequisite
- [] Dept Recommendation
- * Offered in Fall Semester Only
- + Offered in odd years only

 ** Offered in Spring Semester Only
 ++ Offered in even years only

For Additional Information Contact:

Mr. M. Brietzke

Office:

Phone: 268





department index

ACCOUNTING

ART

AUTOMOTIVE TECHNOLOGY

BIOLOGY

GENERAL BUSINESS

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PHILOSOPHY

PHYSICAL EDUCATION

PHYSICS

POLITICAL SCIENCE

PSYCHOLOGY

SOCIOLOGY

SPEECH

THEATRE

bend edge of book, open to black flag opposite proper designation.